

Catalog No. 10

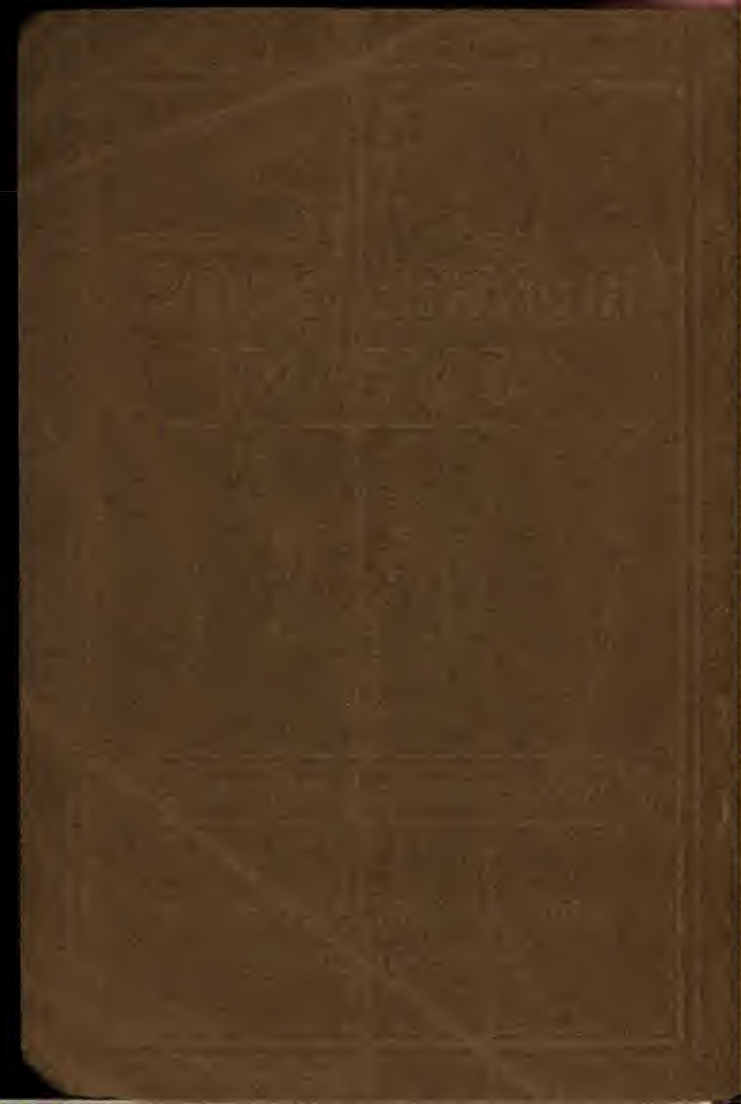
**BERGER BROS.
COMPANY**

H. A. CHRISTER



MANUFACTURERS & MERCHANTS

**219-237 ARCH STREET
PHILADELPHIA**



TINNERS' and ROOFERS' SUPPLIES



General Catalog No. 10

(Issued 1924)

Superseding All Prior Issues

Complete Index on Back Pages

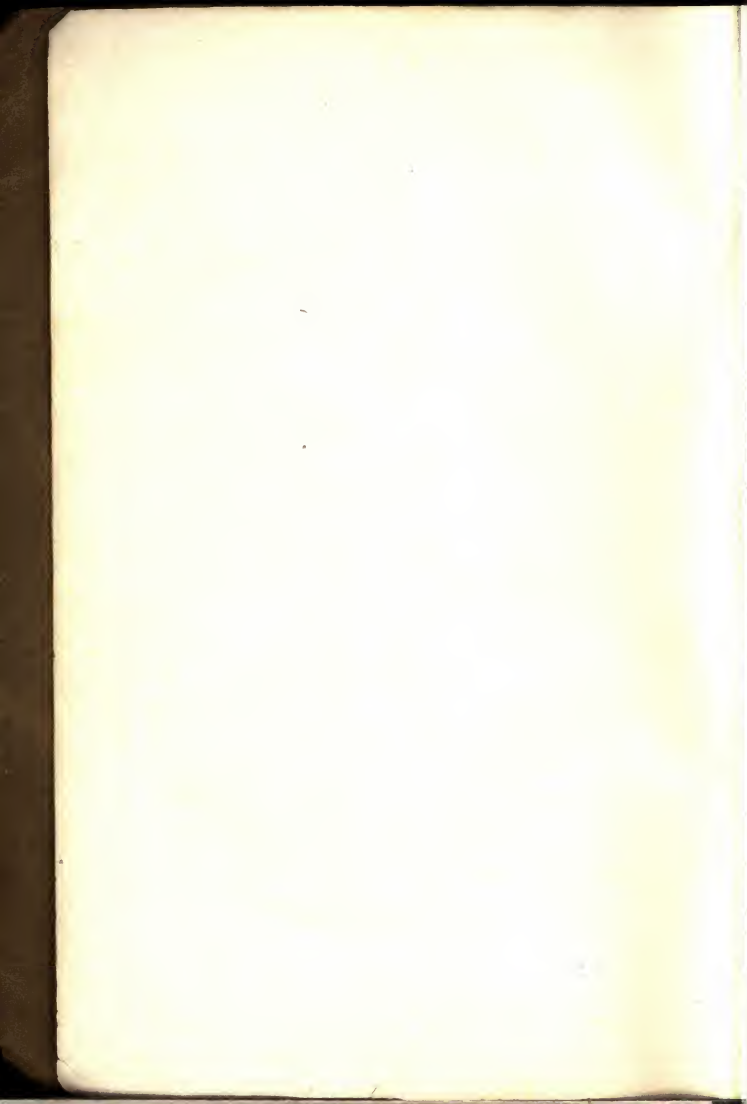


BERGER BROS. CO.

Manufacturers and Merchants
PHILADELPHIA, PA.

Office and Salesroom:
229-237 Arch Street

Factory and Warerooms:
100-114 North Broad Street



Introductory

THIS YEAR we are celebrating our Fiftieth Anniversary, and we want to take this opportunity to express our appreciation of the generous patronage which enabled us to build what is perhaps the country's largest business devoted exclusively to the manufacture and sale of Tinnern' and Roofers' Supplies.

In entering upon the second half century of our business career, it is our resolve to render a still more helpful service than that which has given such general satisfaction in the past.

The selection of the right merchandise is naturally of greatest importance. It has been our aim to present only such goods as will build for you the greatest amount of good will. Our line includes nothing in the experimental stage. Everything listed is practical, thoroughly dependable, and represents maximum value at the price.

You can order from this catalog with the assurance that your order will receive the careful attention of specialists trained to safeguard your interests, for long ago we learned that we serve ourselves best when we render the best possible service to you.

We cordially invite you to visit us whenever possible, for we should like to have you see for yourself just how thoroughly we are prepared to serve you.

We solicit your patronage, and can assure you that we shall do our very best to deserve it.

BERGER BROTHERS COMPANY.

Fifty Years

THE following story of the history of this house was prompted by a question asked us one day, "How do you account for your growth?" Perhaps you, too, are interested in knowing.

Back in 1874, Wm. H. Berger (our President), started the business in a little basement on Fourth Street near Race under the title of Wm. Berger & Co. This was during the reconstruction period following the Civil War, with gold at a premium and conditions far worse than any we have had following the World War. Mr. Berger's stories of the trials of those early days go to prove that success can only be won by persistency and fair dealing. Railroad fares, like everything else, were high, and Mr. Berger, in order to keep expenses down, frequently walked from town to town to call on his trade.

This business prospered to such an extent that several years after starting he admitted his brother to the firm, when the name was changed to Berger Bros. This partnership lasted but a short time, due to the death of the brother.

Mr. Berger early surrounded himself with a corps of young men whom he drilled in the same rigorous attention to detail that he had followed in establishing the business and which had always proved of advantage to the customer.

In 1898, Mr. Berger incorporated the business with himself as President, Wm. Barth, Secretary, and Geo. B. Geiser, Treasurer. The policies which had proven so successful were closely adhered to, and the business grew rapidly. It now occupies a five-story building covering five lots from No. 229 to 237 Arch Street, which are used as stores, offices and warerooms. Connecting in the rear and fronting on Bread Street, from No. 100 to 114, is a large, modern warehouse and factory, designed expressly for the business, where every facility has been installed for the rapid manufacturing and handling of goods

at the least expense. The floor area of the combined buildings is something over 115,000 square feet.

In the factory are manufactured many of the goods we sell, more particularly most of the stampings. We have our own force of die and toolmakers, so we are at no time dependent upon outside assistance in caring for our machinery, dies, tools or jigs.

In the warehouses are carried heavy stocks of conductor pipe, eave trough, tin plate, sheet iron, sheet zinc, sheet copper, and a great variety of small malleable castings and steel stampings, used by tinware manufacturers, roofers, and the sheet metal trade.

Goods of our manufacture are sold throughout the United States and possessions as well as Canada. Our trade-mark, B. B., insofar as is possible, is placed on the various articles we manufacture, or otherwise stamped on the boxes in which the goods are packed. This trade-mark is our guarantee that better goods cannot be made.

The growth of this business we feel is due primarily to rigid early training, to thoroughly made goods, to prompt service, to fair dealing, and to a realizing sense that it is only through thoroughly satisfying our customers that we can hope to progress.

Last fall (September, 1923), we were unfortunate enough to lose through death our Secretary, Wm. Barth. This necessitated a reorganization, when the following officers were elected:

Wm. H. Berger, President; G. B. Geiser, Vice-President; M. L. Wolfe, Secretary; R. H. Hoffman, Treasurer; H. E. Usinger, Assistant Secretary; H. B. Feltman, Assistant Treasurer.

All these men have been actively associated with the concern for many years. Mr. Berger, our President, although now past 83, a veteran of the Civil War and the inventor of the "Berger" pipe and gutter hangers so extensively used, as well as other useful articles in malleable iron, is still actively interested in the business.

Terms

Due to fluctuations over which we have no control, all prices are quoted subject to change without notice.

Net cash, thirty days from date of invoice, or cash discount allowed if paid within ten days as per stamp on bill.

Bills not paid at maturity are subject to sight draft, without further notice. Goods are priced on a thirty-day basis of settlement, therefore no extensions can be allowed except by special agreement, made before goods are purchased. We will be obliged to add interest to all overdue accounts.

Claims for errors must be made upon receipt of goods.

We will gladly ship to new customers having good commercial rating or furnishing satisfactory reference.

In the absence of above we will ship either C. O. D. or to our order, with draft and bill of lading attached providing one-half payment is made in advance. This is necessary to insure acceptance.

In order to avoid unnecessary delays, please send your orders, inquiries and remittances upon separate sheets.

As questions constantly arise as to the responsibility of shipper for loss of and damage to goods in transit, we beg to call your special attention to the following:

(a) Our responsibility ceases as soon as goods are delivered in good order and condition at shipping point, and a receipt taken for the same—we, as senders, have no legal claim after the goods are delivered to the carriers properly consigned, as the ownership has passed from us to the consignee.

(b) No goods returned will be received by us unless we have given our permission that same can be returned, and party returning must in all cases pay freight and drayage charges plus 10% for our cost of handling, etc.

(c) After orders are entered the cancellation of same must be subject to our acceptance.



Store and Office Front, 229 to 237 Arch Street

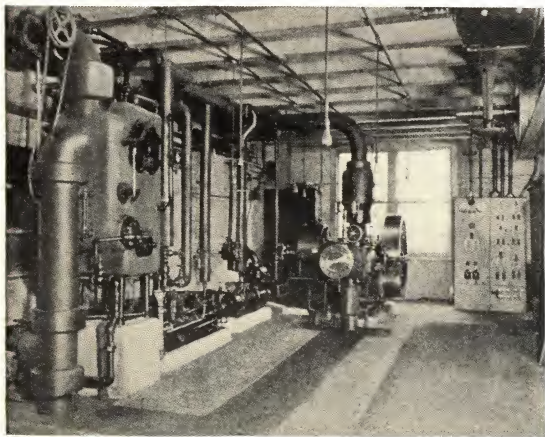
Property covers 93 feet in front by 205 feet in depth, joining on its western side the Betsy Ross House, where the first American flag was made. The total floor area of these buildings is about 115,000 square feet. It is all devoted to the manufacturing and storage of the various lines called for by sheet metal contractors.



Rear view of Offices on First Floor, arranged with every modern device to handle quickly your every need



Shipper's Office—Fitted with the most modern devices for the rapid handling of shipments, and following them through to delivery



All heat, light and power used in our entire building is generated here. This plant was installed in order that we would be sure of continuous service.



Our Garage can house 25 large trucks, and besides has its own shop, so that repairs can be instantly made

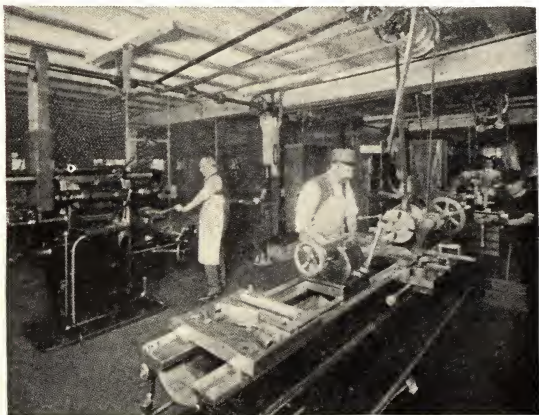


Fleet of Trucks for delivering in city and to railroads and steamers



Stamping and Press Room

In addition to stamping and punching numerous lines of goods, the work of assembling B. B. Hangers and Spout Fasteners is carried on here in its entirety

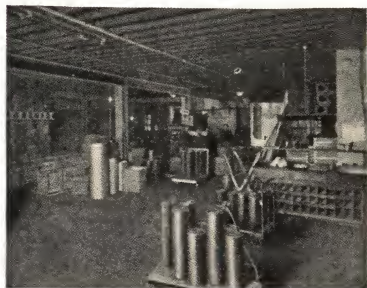


Machine Shop

A fully equipped shop where we make some of our machines, machine parts and all dies and jigs; of greatest value in keeping our entire manufacturing plant in the highest state of efficiency.

**Packing and Display
Room**

Handling the many
small goods



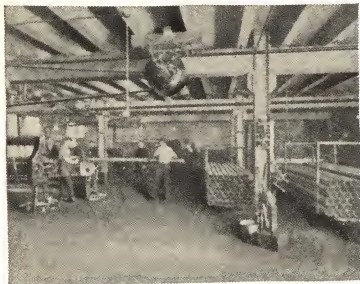
**Packing and
Shipping Room**

Here are assembled all
orders for out-of-town
delivery.

**Heavy Goods, Receiv-
ing and Shipping
Departments**

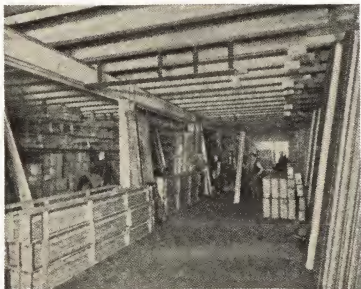
Storeroom for copper
and some galvanized
sheets; also city ship-
ping handled here.
Teams and auto trucks
are loaded anywhere
in this room.



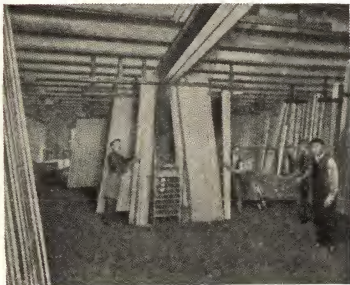


**Conductor and
Gutter Factory**

Small section of Conductor and Gutter manufacturing department. All pipe sold by us, either round, corrugated or square, is made here.



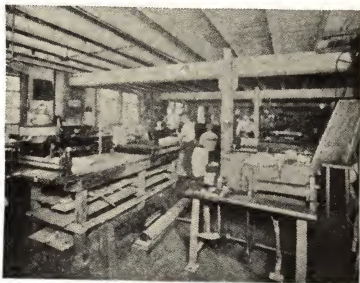
**Conductor and
Gutter Storage**



These illustrations show two sections of one room where we carry about one and one-quarter million feet of various sizes of round, corrugated and square conductor pipe and gutter.

Sheet Metal Shop

Fitted with every type of tool for the rapid manufacture of metal cornices, conductor heads, finials, ventilators; in fact anything in the sheet metal line.



Tinning Plant

This plant enables us to properly tin the malleable and wrought castings which we handle.

Storage Department for Tinned Castings

Tons of various types of tinned castings are stored here in barrels ready for immediate shipment.



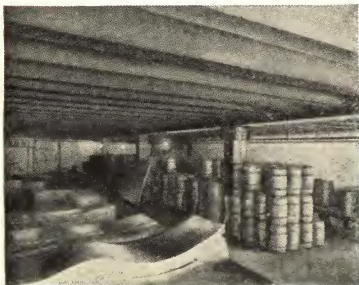
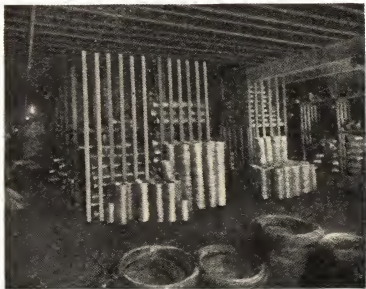


Boxing Department

In this room all the small hardware, such as shanks, circles and hooks are boxed. The stock is so large immediate shipment can be made.

Storage Department

Pipe, elbow and warm air fittings fill this large room. There are thousands of feet in various sizes for immediate needs.

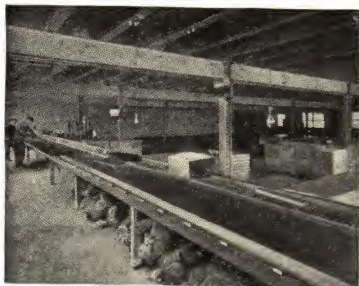


Sheet Iron and Nails

We aim to carry at all times a stock of such magnitude that any ordinary demand can be promptly met.

Tin Plate

Various grades of plates are stocked in such quantities that your needs can be cared for at once.



Roll Tin Department

We manufacture all roll tin sold by us; the soldering is all done by hand and is time work. This feature insures dependable roofing.

Tarred Roofing, Roofing and Asbestos Papers

In addition to a large stock of tarred roofing and roofing papers, our stock of asbestos pipe covering in various styles is most complete.



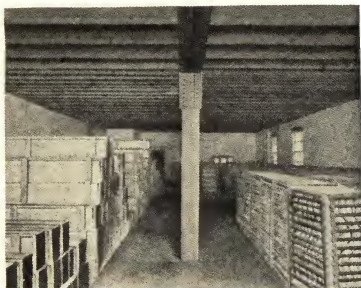


Finished Hardware

The great demand for hooks, shanks and circles requires us to carry a heavy stock in bulk for immediate shipment.

Gutter and Elbow Storage

Sufficient of these goods are always carried crated in quantities so that there is no waiting for packing.



Department of Castings Ready for Tinning

This large room is devoted to the storage of the many styles of castings we carry awaiting tinning.

B. B. Co.'s Galvanized "E-Z-Fit" Gutter

SLIP AND LAP JOINT

Most perfect and uniform gutter on the market.

Size given is diameter. Depth is always one-half the diameter. Lengths, 10 feet. Note illustration showing Bead Cut Back, making it easy to put Gutter together. Also Stiffening in Bead.

Slip Joint Gutter is almost universally used because it is easy to put together, requires no soldering, is not affected by expansion or contraction and, therefore, gives better all around satisfaction. Each piece measures full 10 feet (except heavy gauges). Slip Joint Gutter is, therefore, always furnished except where Lap Joint Gutter is specified. Each crate is made up of one-half right and one-half left.

Our Galvanized Steel Gutters are made from the best grade of Galvanized Open Hearth Steel Sheets on the market. Lists on page 18.

Illustration Shows Lap Joint

GENUINE "ARMCO" INGOT IRON GALVANIZED GUTTERS

(10 Feet Long)

This Gutter is manufactured of the purest iron made and sold commercially today (99.84 per cent. pure iron). It is more durable and lasting than steel and those desiring a superior article should use it in preference. Lists on page 18.

TONCAN METAL GUTTERS

(10 Feet Long)

This Gutter is made of Toncan Metal Brand Copper Bearing Iron Sheets; durable and corrosion-resisting. Lists on page 18.

STANDARD LIST PRICES—PER FOOT

Effective November 1, 1924

B. B. Co.'s Galvanized "E-Z-Fit" Gutter. **STEEL, "ARMCO" INGOT IRON AND "TONCAN" METAL**

Standard Sizes and Gauges

SLIP JOINT GUTTERS—Per Foot

Sizes Inches	Single Bead Slip Joint				Double Bead Slip Joint				Sizes Inches
	No. 29	No. 28	No. 26	No. 24	No. 29	No. 28	No. 26	No. 24	
3½	\$0.17	\$0.19	\$0.23	\$....	\$0.24	\$0.25	\$0.30	\$....	3½
4	.19	.21	.25	.35	.26	.27	.32	.46	4
5	.21	.22	.26	.36	.28	.29	.34	.47	5
6	.26	.27	.33	.42	.33	.35	.42	.57	6
7	.32	.34	.42	.52	.39	.41	.52	.62	7
8	.42	.44	.52	.62	.49	.52	.62	.72	8

LAP JOINT GUTTERS—Per Foot

Sizes Inches	Single Bead Lap Joint				Double Bead Lap Joint				Sizes Inches
	No. 29	No. 28	No. 26	No. 24	No. 29	No. 28	No. 26	No. 24	
3½	\$0.15	\$0.17	\$0.21	\$....	\$0.22	\$0.23	\$0.28	\$....	3½
4	.17	.19	.23	.33	.24	.25	.30	.44	4
5	.19	.20	.24	.34	.26	.27	.32	.45	5
6	.24	.25	.31	.40	.31	.33	.40	.55	6
7	.30	.32	.40	.50	.37	.39	.50	.60	7
8	.40	.42	.50	.60	.47	.50	.60	.70	8

Galvanized Steel. Use No. 29, 28, 26 or 24 Gauge Lists.

Genuine "Armco" Ingot Iron. Use No. 28, 26 or 24 Gauge Lists.

"Toncan" Metal. Use No. 28, 26 or 24 Gauge Lists.

"Armco" Ingot Iron and Toncan Metal Not Made Lighter Than No. 28 Gauge.

Galvanized Steel, Discount..... Per Cent.

Genuine "Armco" Ingot Iron, Discount..... Per Cent.

"Toncan" Metal, Discount..... Per Cent.

STANDARD LIST PRICES—PER FOOT

Effective February 27, 1923

B. B. Co.'s Cold Rolled Copper "E-Z-Fit" Gutter

Copper is the best material for use in making eave trough, and while the first cost is somewhat greater than galvanized, if ornamentality and durability are considered, it is the most economical to specify and use.

COLD ROLLED COPPER GUTTER

In. Size	Slip Joint Single Bead		Lap Joint Single Bead		Slip Joint Double Bead		Lap Joint Double Bead		In. Size
	14 oz.	16 oz.	14 oz.	16 oz.	14 oz.	16 oz.	14 oz.	16 oz.	
3	\$0.26	\$0.29	\$0.23	\$0.26	\$0.31	\$0.35	\$0.28	\$0.32	3
4	.31	.35	.28	.32	.40	.43	.37	.40	4
5	.36	.39	.33	.36	.43	.48	.40	.45	5
6	.42	.47	.39	.44	.53	.58	.50	.55	6
7	.52	.57	.49	.54	.60	.67	.57	.64	7
8	.59	.66	.56	.63	.70	.78	.67	.75	8
9	.75	.83	.72	.80	.87	.95	.84	.92	9
10	.88	.98	.85	.95	1.00	1.10	.97	1.07	10

Discount Per Cent.

FOR PRICES FOR CAST BRONZE AND COPPER HANGERS. SEE PAGES 78 AND 79

Bishop's Quick Working Gutter End Formers



Patented Jan. 25, 1898
THE TOOL

Sizes	Price each
3½ inch	\$.50
4 inch	.60
4½ inch	.65
5 inch	.75
6 inch	1.00

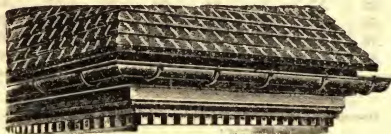


THE WORK

How to use—Cut end of trough on about a half circle, cutting bead a little short with snips. The pattern will readily be gotten by the eye after one or two trials. Place sloping end of form in gutter about even with end. Start iron into grooves; then reverse form and set up the iron into grooves on right angle end with a dull pean hammer. Don't give up on the first trial as there is a little knack in doing the work neatly. Start all the grooves a little before setting them down, commencing with outside ones. Clamp the form in place on first trial—you will not need the clamp after a few trials.

Roof with Berger's Gutter and Hangers

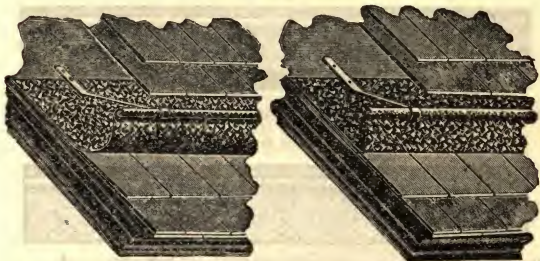
BEST IN THE WORLD



Showing the open gutter, free to expand and shrink, no stems or cross-bars to stop the flow of leaves or rubbish. The hangers give the trough a strong, paneled appearance. A gutter of this kind will last many years, costs the least, and pays for itself in the additional width it gives to the projection of the eaves. Architects now plan their buildings, wherever possible, for this style of gutter.

FOR BLACK OR TINNED HANGERS, SEE PAGES 71 to 79

Special Roof Gutters



Style A—Size of sheet in inches..... 14 20 24



Style B—Size of sheet in inches..... 15 20 24



Style C—Size, 5 inch..... $3\frac{1}{2}$ inches deep.....12-inch girt....\$
 Size, 6 inch..... $4\frac{1}{4}$ inches deep.....14-inch girt....
 Size, 7 inch..... $4\frac{1}{2}$ inches deep.....16-inch girt....



Style D—Size, 6 inch.....4 inches deep.....15-inch girt....\$
 Size, 7 inch.....5 inches deep.....18-inch girt....
 Size, 8 inch..... $5\frac{1}{2}$ inches deep.....20-inch girt....

NOTE—These Gutters are not carried in stock, but made to order only, and under no conditions are they returnable. See list on page 23

FOR A FIRST-CLASS HANGER, SEE GUTTER SPIKES, PAGE 51

Quarter Round, Square and O. G. Gutters

Back of Gutter same height as front



Style E—Size, 6 inch.....4½ inches deep.....15-inch girt.....\$
 Size, 7 inch.....5½ inches deep.....18-inch girt.....
 Size, 8 inch.....7 inches deep.....22-inch girt.....



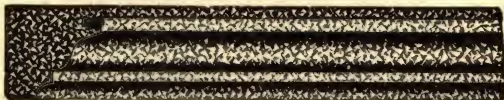
Style F—Size, 6 inch.....5½ inches deep.....18-inch girt.....\$
 Size, 7 inch.....5½ inches deep.....20-inch girt.....
 Size, 8 inch.....6 inches deep.....22-inch girt.....



Style G—Size, 6 inch.....5½ inches deep.....18-inch girt.....\$
 Size, 7 inch.....6½ inches deep.....20-inch girt.....
 Size, 8 inch.....7 inches deep.....22-inch girt.....



Style H—Size, 6 inch.....4 inches deep.....14-inch girt.....\$
 Size, 7 inch.....4½ inches deep.....16-inch girt.....
 Size, 8 inch.....5½ inches deep.....18-inch girt.....



Style J—Size, 6 inch.....5½ inches deep.....18-inch girt.....\$
 Size, 7 inch.....6½ inches deep.....20-inch girt.....
 Size, 9 inch.....8 inches deep.....24-inch girt.....

Discount.....Per Cent.

Hangers for A and B Gutter—BlackEach, \$0.06

Hangers for A and B Gutter—GalvanizedEach, .08

Discount.....Per Cent.

NOTE—These Gutters are not carried in stock but made to order only and under no conditions are they returnable. See list on page 23

Curved Gutters

GALVANIZED OR COPPER



Made only to order. Always state radius of circle and what material and gauge, also whether Single or Double Bead is wanted. Prices quoted on application.

Galvanized Gravel Strip



Prices quoted on application. State the dimensions of the three faces as desired, also the kind and gauge of material wanted.

O. G. Box and Roof Gutters

STANDARD LISTS, PER FOOT, FOR GALVANIZED STEEL,
"ARMCO" INGOT IRON AND "TONCAN" METAL

Styles A, B, C, D, E, F, G, H, J—Per Foot

Girth	No. 29	No. 28	No. 26	No. 24
8 inch	\$0.17	\$0.18	\$0.23	\$0.32
10 inch	.19	.20	.24	.34
12 inch	.24	.25	.31	.40
14 inch	.30	.32	.40	.50
15 inch	.33	.35	.43	.53
18 inch	.40	.42	.50	.60
20 inch	.46	.48	.58	.68

"Armco" Ingot Iron and "Toncan" Metal not made lighter than No. 28

Intermediate girths take list of next higher girth

Wider than 30 inch add proportionately to list

Copper can be furnished. Prices upon application

Formed Valley same list as Gutters

FOR ILLUSTRATIONS SEE PAGES 21 AND 22

B. B. Double Seamed Reinforced Mitres

of Galvanized Steel, "Armco" Ingot Iron and "Toncan" Metal
The Strongest and Best Mitres Made



Size—Inches	List—Per Dozen				
	3½	4	4½ & 5	6	7
Lap Joint Single Bead }	\$7.50	\$8.00	\$9.25	\$11.75	\$15.75
Lap Joint Double Bead }	10.50	11.00	12.25	14.75	18.75
Slip Joint Single Bead }	10.50	11.00	12.25	14.75	18.75
Slip Joint Double Bead }	13.50	14.00	15.25	17.75	21.75

PACKED IN CARTON

Galvanized Steel, Discount.....Per Cent.
Genuine "Armco" Ingot Iron, Discount.....Per Cent.
"Toncan" Metal, Discount.....Per Cent.

B. B. Double Seamed Copper Reinforced Mitres

List—Per Dozen

Size—Inches	3½	4	4½ & 5	6	7
Lap Joint Single Bead }	\$10.80	\$11.40	\$13.20	\$20.04	\$25.80
Lap Joint Double Bead }	13.80	14.40	16.20	23.04	28.80
Slip Joint Single Bead }	13.80	14.40	16.20	23.04	28.80
Slip Joint Double Bead }	16.80	17.40	19.20	26.04	31.80

PACKED 2 DOZEN IN CARTON

Copper Mitres, Discount.....Per Cent.

In ordering Mitres, state whether "Inside" or "Outside" are wanted, and if Slip Joint, whether "Rights" or "Lefts." Otherwise half of each kind will be shipped.

Gutter End Pieces, Caps and Outlets

Standard Lists, Steel, "Armco" Ingot Iron and "Toncan" Metal



LIST PRICES PER DOZEN

Size—Inches	2	3	3½	4	4½ & 5	6	7
"A" End Pieces Complete, Single Bead			\$5.20	\$5.60	\$6.25	\$7.30	\$8.40
"A" End Pieces Complete, Double Bead			5.95	6.25	6.90	8.00	9.35
"B" Outlets Only	\$1.20	\$1.45	.....	1.80	2.35	2.90	.....
"C" Caps Only			1.80	1.90	2.00	2.40	2.90
"D" End Pieces Without Caps, Single Bead.....			3.40	3.70	4.25	4.90	5.50
"D" End Pieces Without Caps, Double Bead.....			4.15	4.35	4.90	5.60	6.45

When ordering "A" and "D" End Pieces, always state whether Single or Double Bead; also size of "B" Outlet. Single Bead always shipped unless otherwise ordered, and standard-size Outlets for Trough they fit.

No. 20—Galvanized Steel,	Discount.....Per Cent.
No. 26—Galvanized Steel,	Discount.....Per Cent.
No. 28—Galvanized "Toncan,"	Discount.....Per Cent.
No. 28—Galvanized "Armco,"	Discount.....Per Cent.

Gutter End Pieces, Caps and Outlets

MADE OF COLD ROLLED SHEET COPPER

Either 14 or 16 oz.

List Price Per Dozen

Size, Inches	2	3	3½	4	4½ & 5	6	7
"A" End Pieces Complete, Single Bead			\$16.20	\$17.40	\$19.20	\$22.20	\$27.00
"A" End Pieces Complete, Double Bead			19.20	20.40	22.20	25.20	30.00
"B" Outlets Only	\$3.60	\$4.80	.....	6.00	7.20	8.40	.. ..
"C" Caps Only			4.80	4.80	6.00	6.60	7.80
"D" End Pieces Without Caps, Single Bead.....			11.40	12.60	13.20	15.60	19.20
"D" End Pieces Without Caps, Double Bead.....			14.40	15.60	16.20	18.60	22.20

Discount.....Per Cent.

B. B. Co.'s "Shur Lock" Conductor



ROUND
CORRUGATED

Our Own Make—Broad Stiff "Shur Lock" Seams—10-Foot Lengths
Every Piece Straight and True to Gauge
We Make a Specialty of Heavy Gauges



SQUARE
CORRUGATED

Can Furnish All Styles in Copper Promptly



PLAIN ROUND

Large Stock of "Armco" Ingot Iron and "Toncan" Metal Pipe



PLAIN SQUARE AND PEERLESS
PIPE

See Lists on Next Page

STANDARD LIST PRICES—PER FOOT

Effective November 1, 1924

Round Corrugated Pipe—Per Foot

Galvanized Steel, "Armco" Ingot Iron and "Toncan" Metal
Standard Sizes and Gauges

Sizes Inches	No. 29 Gauge		No. 28 Gauge		No. 26 Gauge		No. 24 Gauge		Sizes Inches
	Per foot	Pounds per 100 ft.	Per foot	Pounds per 100 ft.	Per foot	Pounds per 100 ft.	Per foot	Pounds per 100 ft.	
2	\$0.17	47	\$0.18	51	\$0.23	59	\$. . . .	...	2
3	.19	58	.20	63	.24	74	.34	95	3
4	.26	76	.28	82	.34	96	.46	123	4
5	.37	94	.39	102	.46	119	.60	152	5
6	.46	111	.50	121	.58	141	.72	180	6

Plain Round Pipe—Per Foot

Sizes Inches	No. 29 Gauge		No. 28 Gauge		No. 26 Gauge		No. 24 Gauge		Sizes Inches
	Per foot	Pounds per 100 ft.	Per foot	Pounds per 100 ft.	Per foot	Pounds per 100 ft.	Per foot	Pounds per 100 ft.	
1½	\$0.17	32	\$0.18	35	\$0.23	...	\$. . . .	...	1½
2	.17	40	.18	44	.23	51	.....	...	2
3	.19	58	.20	63	.24	74	.34	95	3
4	.26	76	.28	82	.34	96	.46	123	4
5	.37	94	.39	102	.46	119	.60	152	5
6	.46	111	.50	121	.58	141	.72	180	6

Square Corrugated Pipe—Per Foot

Correct Sizes Inches	No. 29 Gauge		No. 28 Gauge		No. 26 Gauge		No. 24 Gauge		Com- monly Termed Inches
	Per foot	Pounds per 100 ft.	Per foot	Pounds per 100 ft.	Per foot	Pounds per 100 ft.	Per foot	Pounds per 100 ft.	
1½ x 2½	\$0.22	46	\$0.23	50	\$0.29	59	\$. . . .	...	2
2½ x 3½	.23	60	.24	65	.30	76	.40	98	3
2½ x 4½	.30	80	.31	87	.38	101	.50	130	4
3½ x 5	.40	99	.42	107	.50	125	.65	160	5

Galvanized Steel. Use No. 29, 28, 26 or 24 Gauge Lists.

Genuine "Armco" Ingot Iron. Use No. 28, 26, or 24 Gauge Lists.

"Toncan" Metal. Use No. 28, 26 or 24 Gauge Lists.

Galvanized Steel, Discount.....Per Cent.

Genuine "Armco" Ingot Iron, Discount.....Per Cent.

"Toncan" Metal, Discount.....Per Cent.

**"ARMCO" INGOT IRON AND "TONCAN" METAL NOT MADE LIGHTER THAN
NO. 28 GAUGE**

FOR HOOKS AND FASTENERS SEE PAGES 83 to 90

Plain Square Pipe—Irregular

GALVANIZED STEEL, "ARMCO" INGOT IRON AND "TONCAN" METAL

Size, Inches	PER LINEAL FOOT						
	2x3	2x4	2½x4	3x4	3½x5	4x5	4x6
28 Gauge	\$—	—	—	—	—	—	—
26 Gauge	—	—	—	—	—	—	—
24 Gauge	—	—	—	—	—	—	—
22 Gauge	—	—	—	—	—	—	—
20 Gauge	—	—	—	—	—	—	—

PRICES QUOTED UPON APPLICATION

Peerless Expanding Pipe

Made in 10-foot lengths without cross-seams, of standard gauge, open hearth, galvanized steel sheets with tapering ends, making connections easy. Also made of "Armco" Ingot Iron, "Toncan" Metal and cold rolled copper (copper in 8-foot lengths). This is also made of heavier gauge material.

	Prices Per Foot, Galvanized
2x3 inch (actual size) 1½ inch x 2½ inch	\$—
3x4 inch (actual size) 2½ inch x 3½ inch	—
4x5 inch (actual size) 3½ inch x 4½ inch	—

Prices quoted upon application

Spiral Lock-Seam Pipe



Sizes, Inches	Galvanized						
	1½	2	2½	3	4	5	6
Per Foot	\$0.12	\$0.14	\$0.17	\$0.19	\$0.25	\$0.30	\$0.38

Discount.....Per Cent.

STANDARD PRICE LISTS—PER FOOT

Revised February 27, 1923

Effective February 27, 1923

Cold Rolled Copper Pipe

ROUND CORRUGATED

Sizes, Inches	2	3	4	5	6
14 Ounce	\$0.27	\$0.33	\$0.47	\$0.63	\$0.80
16 Ounce .....	.30	.36	.51	.69	.90

Discount.....Per Cent.

Cold Rolled Copper Pipe

PLAIN ROUND

Sizes, Inches	1½	2	3	4	5	6
14 Ounce	\$0.27	\$0.27	\$0.33	\$0.47	\$0.63	\$0.80
16 Ounce .....	.30	.30	.36	.51	.69	.90

Discount.....Per Cent.

Cold Rolled Copper Pipe

SQUARE CORRUGATED

Sizes, Inches	2	3	4	5
14 Ounce	\$0.28	\$0.37	\$0.49	\$0.65
16 Ounce .....	.31	.40	.53	.75

Discount.....Per Cent.

Plain Square Pipe quoted upon application

Cold Rolled Copper Ridge Roll

Size, Inches	1½	2	2½	3
Girth, Inches	8	10	12	14
14 Ounce	\$0.28	\$0.33	\$0.40	\$0.56
16 Ounce .....	.32	.36	.45	.63

Discount.....Per Cent.

FOR HOOKS AND FASTENERS SEE PAGES 85 to 90

Wire Conductor Strainers

Galvanized and Copper. Round and Square

All Sizes in Stock



GALVANIZED Round

Size	Gauge		Lists
2 inch.....	No. 17.....	per dozen,	\$0.75
3 inch.....	No. 17.....	per dozen,	1.05
4 inch.....	No. 16.....	per dozen,	1.50
5 inch.....	No. 15.....	per dozen,	2.55
6 inch.....	No. 15.....	per dozen,	3.00

Square

2 x 3 inch.....	No. 17.....	per dozen,	\$3.20
3 x 4 inch.....	No. 16.....	per dozen,	4.80
4 x 5 inch.....	No. 16.....	per dozen,	5.40

Other sizes to order

Discount.....Per Cent.

COPPER

Round

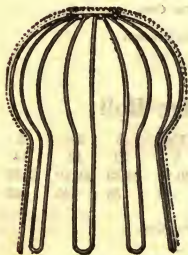
2 inch.....	No. 17.....	per dozen,	\$1.80
3 inch.....	No. 17.....	per dozen,	2.90
4 inch.....	No. 16.....	per dozen,	4.20
5 inch.....	No. 15.....	per dozen,	7.20
6 inch.....	No. 15.....	per dozen,	8.25

Square

2 x 3 inch.....	No. 17.....	per dozen,	\$4.00
3 x 4 inch.....	No. 16.....	per dozen,	8.00
4 x 5 inch.....	No. 15.....	per dozen,	10.00

Discount.....Per Cent.

We carry the leading sizes of Conductor Strainers in stock.
Heavier gauges and larger sizes furnished to order promptly



Coleman's Adjustable Spout Strainers

Patented April 21, 1903

Can be easily fitted to round or square pipe.
Made of heavy galvanized or copper wire.

- No. 1, Galvanized, will fit 2 to 4 inch pipe
- No. 2, Galvanized, will fit 5 to 6 inch pipe.
- No. 3, Copper, will fit 2 to 4 inch pipe.
- No. 4, Copper, will fit 5 to 6 inch pipe.

WRITE FOR PRICES.

Galvanized Elbows and Shoes

ROUND CORRUGATED

No. 1
45 degreesNo. 2
60 degreesNo. 3
75 degreesNo. 4
90 degreesHEAVIEST GAUGE
ELBOWS AND
SHOES ON THE
MARKETNo. 3 Shoe
75 degrees

List Prices—Per Piece

Size	Gal. Steel		Ingot Iron Toncan Metal		14 Oz. Copper		16 Oz. Copper	
	Elbows	Shoes	Elbows	Shoes	Elbows	Shoes	Elbows	Shoes
2 in.	\$0.30	\$0.40	\$0.40	\$0.50	\$0.70	\$0.75	\$0.75	\$0.85
3 in.	.36	.48	.48	.60	.90	1.00	1.00	1.10
4 in.	.60	.75	.75	.90	1.35	1.50	1.50	1.65
5 in.	1.25	1.50	1.45	1.65	2.00	2.25	2.25	2.50
6 in.	1.50	1.80	1.75	2.00	2.85	3.15	3.15	3.50

When ordering state both size and number

No. 3 will be furnished on all orders unless otherwise specified.

Galvanized Steel, Discount Per Cent.

"Armco" Ingot Iron, Discount Per Cent.

"Toncan" Metal, Discount Per Cent.

Copper, Discount Per Cent.

DISCOUNTS GIVEN UPON APPLICATION

Galvanized Elbows and Shoes

PLAIN ROUND

No. 1
45 degreesNo. 2
60 degreesNo. 3
75 degreesNo. 4
90 degreesHEAVIEST GAUGE
ELBOWS AND
SHOES ON THE
MARKETNo. 5 Shoe
75 degrees

List Prices—Per Piece

Size	Gal. Steel		Ingot Iron Toncan Metal		14 Oz. Copper		16 Oz. Copper	
	Elbows	Shoes	Elbows	Shoes	Elbows	Shoes	Elbows	Shoes
2	\$0.30	\$0.40	\$0.40	\$0.50	\$0.70	\$0.75	\$0.75	\$0.85
3	.36	.48	.48	.60	.90	1.00	1.00	1.10
4	.60	.75	.75	.90	1.35	1.50	1.50	1.65
5	1.25	1.50	1.45	1.65	2.00	2.25	2.25	2.50
6	1.50	1.80	1.75	2.00	2.85	3.15	3.15	3.50

Galvanized Steel, Discount.....Per Cent.

"Armco" Ingot Iron, Discount.....Per Cent.

"Toncan" Metal, Discount.....Per Cent.

Copper, DiscountPer Cent.

DISCOUNTS GIVEN UPON APPLICATION

Galvanized Elbows and Shoes

SQUARE CORRUGATED

Style A

No. 1
45 degreesNo. 2
60 degreesNo. 3
75 degrees

No. 3 Shoe

Style B

No. 1
45 degreesNo. 2
60 degreesNo. 3
75 degrees

No. 3 Shoe

Style A

Size	Gal. Steel		Ingot Iron-Toncan Metal		14 Oz. Copper		16 Oz. Copper	
	Elbows	Shoes	Elbows	Shoes	Elbows	Shoes	Elbows	Shoes
2 in.	\$0.40	\$0.50	\$0.60	\$0.75	\$0.85	\$0.90	\$0.90	\$1.05
3 in.	.50	.60	.70	.85	1.10	1.20	1.20	1.35
4 in.	.65	.80	.90	1.10	1.60	1.80	1.80	2.00
5 in.	1.00	1.25	1.35	1.60	2.40	2.75	2.75	3.00

STYLE B—Same list as Style A

Style A and B used together enables a perfect "Rounding" of a corner without cutting of the pipe.

Galvanized Steel, DiscountPer Cent.

"Armco" Ingot Iron, Discount.....Per Cent.

"Toncan" Metal, DiscountPer Cent.

Copper, DiscountPer Cent.

DISCOUNTS GIVEN UPON APPLICATION

THE BEST EVER MADE



Corrugated

K

UEHN'S
ORRECT
UT-OFF

No Solder used in
putting them
together

Galvanized after
formation



Plain

Unequalled for Strength

BERGER BROS. CO.—Eastern Agents

Price List—Per Dozen—Galvanized Steel

Round Corrugated		Plain Round	
2 inch.....	\$7.50	2 inch.....	\$7.00
3 inch.....	8.00	3 inch.....	8.00
4 inch.....	11.00	4 inch.....	11.00
5 inch.....	20.00	5 inch.....	20.00
6 inch.....	24.00	6 inch.....	24.00

Discount.....Per Cent.

Centennial Cut-Off

Can be Used in Any Position Without Extra Pipe



Right Hand Wire



Sectional View



Left Hand Wire

Put up in crates of one dozen each, assorted right and left hand wires, so they may be used in any position without extra pipe or elbows.

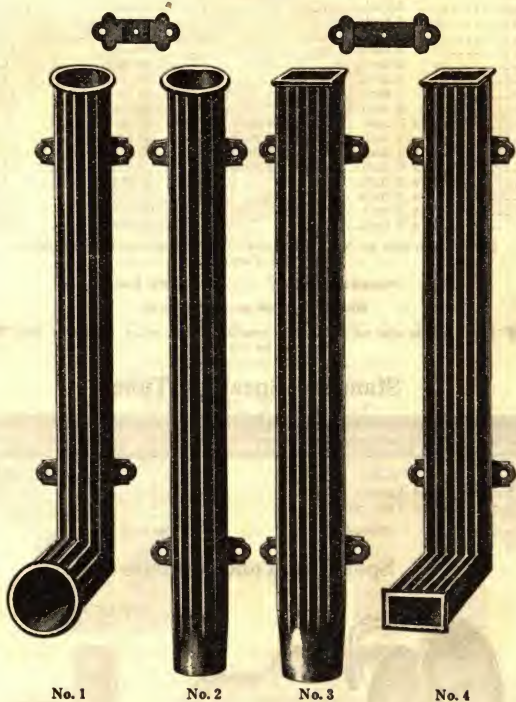
Galvanized Plain Round

Inches	2	3	4	5	6
Per dozen	\$6.00	\$7.00	\$9.60	\$13.00	\$18.00

Discount.....Per Cent.

Copper Cut-offs Can Also Be Furnished. Prices Upon Application

Cast Iron Leader Shoes and Sewer Connections With Detachable Lugs



Regular Sizes Always in Stock
LIST AT TOP OF NEXT PAGE

Estimates furnished on special sizes and shapes

These goods are sold only on condition that after purchase they cannot be returned

Cast-Iron Leader Shoes and Sewer Connections

No.	Size Opening	Size Outlet	Length	Each
1.....	3 inch.....	.....	54 inch.....	\$7.00
1.....	4 inch.....	.....	54 inch.....	11.00
1.....	5 inch.....	.....	60 inch.....	13.00
1.....	6 inch.....	.....	60 inch.....	17.00
2.....	3 inch.....	.....	48 inch.....	6.50
2.....	4 inch.....	.....	48 inch.....	9.50
2.....	5 inch.....	.....	60 inch.....	12.00
2.....	6 inch.....	.....	60 inch.....	17.00
3.....	2 x 3 inch.....	3 inch.....	48 inch.....	8.00
3.....	3 x 4 inch.....	4 inch.....	48 inch.....	10.50
3.....	4 x 5 inch.....	5 inch.....	60 inch.....	18.00
3.....	4 x 6 inch.....	6 inch.....	60 inch.....	24.00
4.....	2 x 3 inch.....	.....	48 inch.....	8.50
4.....	3 x 4 inch.....	.....	48 inch.....	10.50
4.....	4 x 5 inch.....	.....	60 inch.....	19.00
4.....	4 x 6 inch.....	.....	60 inch.....	24.00

Sizes Given Are as Near Correct as Our Manufacturing Conditions Will Permit

Discount.....Per Cent.

Illustrations on preceding page

These goods are sold only on condition that after purchase they cannot be returned

Standard Speaking-Tube



1 inch, price per foot	\$0.03
1 inch, Stamped Elbows, each .....	.08
1 inch, Stamped Tee, each .....	.16

Discount.....Per Cent.

Speaking-Tube Whistle



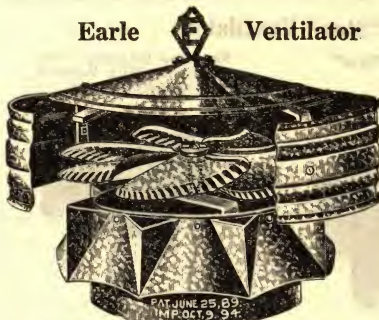
SPEAKING-TUBE
ELBOW



Per Dozen	Japanned	Nickeled
With indicator	\$4.00	\$6.00

Discount.....Per Cent.

Earle Ventilator



Price Each
Galvanized

5	inch....	\$2.50
5½	inch....	2.85
6	inch....	3.40
7	inch....	4.00
8	inch....	4.65
9	inch....	5.20
10	inch....	5.75
12	inch....	6.75
14	inch....	13.00
16	inch....	20.00
18	inch....	27.00
20	inch....	33.00
24	inch....	40.00
30	inch....	65.00
36	inch....	90.00
40	inch....	120.00
48	inch....	150.00

Made of Galvanized Steel, "Armco" Ingot Iron, "Toncan" Metal and Copper

Discount.....Per Cent.

Perfection Ventilator

This Ventilator is built on scientific principles. A Ventilator that ventilates. The sides are flaring inward causing a suction from any direction of the wind. It is strong and very neat in appearance. Just the thing for all purposes.

SAME LIST PRICE AS THE "HERCULES"

Discount.....Per Cent.

Hercules Ventilator



Made of Galvanized Steel, "Armco" Ingot Iron, "Toncan" Metal and Copper

In designing this Ventilator we have eliminated all unnecessary "frills" etc., which are useless, with a view to furnishing a good looking Ventilator at a low price. The construction gives a maximum expulsion of air, and we do not hesitate to state that it is the equal of any stationary ventilator on the market.

PRICE LIST—GALVANIZED STEEL

Inches	4	5	5½	6	7	8	9	10	12	14
Each	\$1.75	\$2.50	\$2.85	\$3.40	\$4.00	\$4.65	\$5.20	\$5.75	\$6.75	\$13.00
Inches	16	18	20	24	30	36	40	48	60	
Each	\$20.00	\$27.00	\$33.00	\$40.00	\$65.00	\$120.00	\$180.00	\$240.00	\$360.00	

Price of "Armco" Ingot Iron, "Toncan" Metal or Copper on Application

Discount.....Per Cent.

"Star" Ventilators

New Standard "Star" Ventilator



Sectional View

The New Standard "Star" Ventilator needs no introduction. It has been on the market several years and has always given entire satisfaction.

New Fire Retarding "Star" Ventilator With Patented Gravity Dampener



Open

The Fire Retarding Damper of this Ventilator is operated by a lever movement, controlled by a chain with fusible link.

In case of fire the link parts and the damper drops by gravity, closes the opening and shuts off the draft entirely.

The Damper can, at any moment, be regulated by simply pulling the chain.

PRICES QUOTED UPON APPLICATION

"Royal" Ventilators

Absolutely Waterproof



ROYAL FACTS

Double Cones.

Scientifically Constructed Deflectors.

Pointed Bottom Cones.

Patented Radiating Ribs.

These features combined with many others make this Ventilator one of the best on the market.

Furnished with either glass or metal top.

PRICE EACH GALVANIZED

Inches..	2	4	5	6	7	8	9	10	12	13
Price...	\$1.00	\$1.75	\$2.50	\$3.40	\$4.00	\$4.65	\$5.25	\$5.75	\$6.75	\$10.00
Inches..	14	15	16	18	20	22	24	26		
Price...	\$13.00	\$16.00	\$20.00	\$27.00	\$33.00	\$36.00	\$40.00	\$50.00		
Inches..	28	30	32	34	36	40	42	48		
Price...	\$56.00	\$65.00	\$80.00	\$100.00	\$120.00	\$180.00	\$190.00	\$240.00		

Also Larger Sizes—Made of Galv. Steel, "Armco" Ingot Iron, "Toncan" Metal and Copper

Discount.....Per Cent.

The Globe Ventilator

Price each Galvanized

Inches.	2	2½	3	3½	4
Price..	\$1.00	\$1.00	\$1.50	\$1.50	\$1.75
Inches.	4½	5	5½	6	7
Price..	\$2.00	\$2.50	\$2.85	\$3.40	\$4.00
Inches.	8	9	10	12	
Price..	\$4.65	\$5.20	\$5.75	\$6.75	
Inches.	14	16	18	20	
Price..	\$13.00	\$20.00	\$27.00	\$33.00	
Inches.	24	30	36	40	
Price..	\$40.00	\$65.00	\$120.00	\$180.00	

Discount.....Per Cent.



Iwans' Revolving Ventilator

Price List—Per Dozen

	Ventilator Complete	Mountings Only
6 inch	\$24.00	\$13.00
7 inch	26.00	13.50
8 inch	28.00	15.00
9 inch	32.00	16.50
10 inch	34.00	18.00
12 inch	40.00	22.00

Discount.....Per Cent.

The iron mountings are composed of only two parts, frame and spindle, and no pins or wire are required to hold down cap.

It protects chimney fully from rain, sleet and snow, and prevents all downward draft.



Fig. 1

UNO Revolving Ventilator

GALVANIZED IRON (Painted)

Figures 1 and 2 show sizes from 4 inch to 15 inch.



Fig. 2

MADE IN BRASS, COPPER OR GALVANIZED IRON (Painted)

These Ventilators are designed to meet the demand for a good Revolving Ventilator at a reasonable cost. They consist of a cylinder with malleable braces or arms in which revolves a head or fan attached to a steel spindle on hardened and adjusted steel bearings (in oil) making them perfectly noiseless and without friction. Figure 1 shows the general appearance of sizes from 4 inch to 15 inch, while Figure 2 gives a sectional view showing the oil bearings.

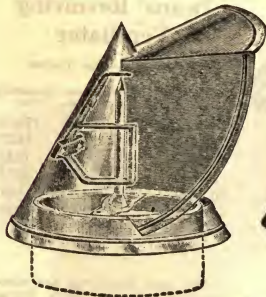
Sizes, inch.	4	6	7	8	10	12	15	18	21	24	30
Price each.	\$7.20	\$7.80	\$8.40	\$9.00	\$12.00	\$15.00	\$24.00	\$48.00	\$66.00	\$84.00	\$130.00

Quotations Furnished on Irregular Sizes.

Discount.....Per Cent.

New Rotable Standard Ventilator

HAS A SENSITIVE BEARING



Patented

One of the most durable and efficient ventilators on the market. Has a sensitive bearing not affected by heat or cold and never requires lubrication.

GALVANIZED STEEL

Sizes, inches	4	5	6	7	8	9	10	12	14	16	18	20	24
Price, each.	\$2.20	\$2.40	\$2.60	\$2.80	\$3.20	\$3.50	\$4.20	\$5.40	\$7.50	\$10.80	\$13.50	\$18.00	\$22.50

GALVANIZED INGOT IRON

Sizes, inches	4	5	6	7	8	9	10	12	14	16	18	20	24
Price, each.	\$2.70	\$2.90	\$3.10	\$3.40	\$3.80	\$4.20	\$5.00	\$6.50	\$9.00	\$13.00	\$16.20	\$21.60	\$27.00

COPPER QUOTED UPON APPLICATION
LARGER SIZES MADE TO ORDER

Discount.....Per Cent.

The "Best" T Chimney Top

This top, as illustrated, is made of cast iron to fit the No. 10½, "Best" Chimney Cap, on which it is shown in cut. The No. 10½ cap will fit the following sized flues: 4" x 8", 8" x 8", 4" x 12" and 8" x 12".

The T is cast in halves bolted together at the top, and with two bolts at the bottom, which act as a clamp, holding the T rigidly to the collar of cap.

Price per dozen, T Tops only, \$



THE "Best" Chimney Cap

No. 10 for Chimneys

1½ x 2 Brick, Flues 4 x 8 inches

2 x 2 Brick, Flues 8 x 8 inches

Collar for 7 inch Pipe



No. 10½ for Chimneys

1½ x 2 Brick, Flues 4 x 8 inches

2 x 2 Brick, Flues 8 x 8 inches

1½ x 2½ Brick, Flues 4 x 12 inches

2 x 2½ Brick, Flues 8 x 12 inches

Collars for 8 inch Pipe

The "Best" Revolving Chimney Cap

Is all made of cast iron, except the vane, which is made of steel, being fitted with perfectly adjusted ball bearings above and below, to take the side thrust. The slightest breeze turns the back of the hood to the wind and causes a suction at the opening which draws the smoke out, thus making a strong draft for the chimney. Absolutely prevents the rain from beating into the chimney, running down and discoloring the walls inside. It is practically indestructible and will last for years.

No. 1 for Chimneys

1½ x 2 Brick, Flues 4 x 8 inches

2 x 2 Brick, Flues 8 x 8 inches

No. 1½ for Chimneys

1½ x 2 Brick, Flues 4 x 8 inches

2 x 2 Brick, Flues 8 x 8 inches

1½ x 2½ Brick, Flues 4 x 12 inches

2 x 2½ Brick, Flues 8 x 12 inches

PRICES UPON APPLICATION



The American Larson Suction Ventilator

This Ventilator by its construction with this suction tube and revolving ell allows the natural movement of air currents to form a suction or vacuum, the natural draft passing through the suction tube forms a vacuum in the revolving ell, causing a draft, and making a perfect discharge.

The exhaust end of the Ventilator is perfectly free, presenting no friction, and the exhaust positive.

POSITIVELY NO DOWN DRAFT

Furnished With and Without Bases
Sizes 8 Inches to 66 Inches

PRICES UPON APPLICATION



Galvanized Chimney Bases

MADE TO ORDER

All styles and sizes. Send sketch with accurate dimensions and description when asking price or ordering; also be sure to state material and gauge wanted.



Galvanized Hoods or Caps

Price each—Galvanized

Inches.....	4	4½	5	5½	6
Price.....	\$0.45	\$0.50	\$0.50	\$0.55	\$0.60
Inches.....	7	8	9	10	12
Price.....	\$0.60	\$0.75	\$1.00	\$1.25	\$1.50

Discount.....Per Cent.



Galvanized Open Hearth Steel Sheets



We carry a complete stock of the best quality sheets in all the standard sizes and gauges and are always in a position to make prompt shipments from store.

We also make mill shipments on quantity orders, thereby giving our customers the benefit of the freight allowance.

LOWEST MARKET PRICES

AVERAGE WEIGHTS OF GALVANIZED SHEETS, STANDARD SIZES

Per Sheet and Per Bundle in Pounds

Gauges	16			18			20			22			24		
Size of Sheet	Wt. per Sheet	Wt. per Bundle	No. Sheets	Wt. per Sheet	Wt. per Bundle	No. Sheets	Wt. per Sheet	Wt. per Bundle	No. Sheets	Wt. per Sheet	Wt. per Bundle	No. Sheets	Wt. per Sheet	Wt. per Bundle	No. Sheets
24x96	42.5	170	4	34.5	138	4	26.5	159	6	22.5	157	7	18.5	148	8
28x96	49.6	149	3	40.3	161	4	30.9	155	5	26.3	157	6	21.6	151	7
30x96	53.1	159	3	43.1	129	3	33.1	166	5	28.1	141	5	23.1	162	7
36x96	63.7	127	2	51.8	155	3	39.7	159	4	33.9	169	5	27.7	166	6

Gauges	26			27			28			29			30		
Size of Sheet	Wt. per Sheet	Wt. per Bundle	No. Sheets	Wt. per Sheet	Wt. per Bundle	No. Sheets	Wt. per Sheet	Wt. per Bundle	No. Sheets	Wt. per Sheet	Wt. per Bundle	No. Sheets	Wt. per Sheet	Wt. per Bundle	No. Sheets
24x96	14.5	145	10	13.5	148	11	12.5	150	12	11.50	149	13	10.5	157	15
28x96	16.9	152	9	15.7	157	10	14.6	146	10	13.41	148	11	12.2	147	12
30x96	18.1	145	8	16.9	152	9	15.6	156	10	14.37	144	10	13.1	144	11
36x96	21.7	152	7	20.2	162	8	18.8	150	8	17.25	155	9	15.8	157	10

PLEASE NOTE

In order to avoid errors and unnecessary delays, we request that customers, when ordering galvanized or black sheets, distinctly specify STEEL, "ARMCO" INGOT IRON or "TONCAN" METAL, as the case may be.

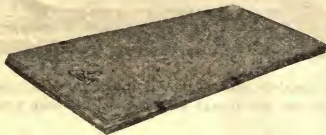
At the present time we find some customers ordering galvanized iron when in reality they want galvanized steel, which causes no end of confusion.

Iron is now being used extensively and, as we carry both steel and iron in stock, it will materially assist us in the execution of your orders, if you will plainly state just which you want.

Genuine "Armco" Ingot Iron

"The Iron With the Reputation"

RUST-RESISTING 99.84% PURE



BLACK AND GALVANIZED

The Purest Iron Manufactured and Sold Commercially Today

For many years there has been a steady increasing demand for a rust-resisting metal for roofing purposes, conductor pipes, eave trough, cornices, metal window frames and like uses. "Armco" Ingot Iron fills this demand.

Analysis has shown that old time iron which has withstood the action of the elements for 50 to 100 years and longer was remarkably pure. "Armco" Ingot Iron is even purer.

Common Steel Sheets corrode very quickly because of the high content of impurities.

"Armco" Ingot Iron wears away slowly and uniformly over its entire surface, and it will not pit or pin-hole like steel. Every sheet is uniform and guaranteed to be 99.84% pure iron.

The galvanized coating on "Armco" Ingot Iron is far superior to steel, inasmuch as steel dissolves five times as fast in molten spelter as "Armco" Ingot Iron. Hence, when a steel sheet is galvanized the coating will contain five times as much impurities as when a pure iron sheet is galvanized; therefore, the purer the coating the greater protection it will be for the underlying base.

The working qualities of this metal cannot be excelled; being soft and pliable it will answer all requirements.

We carry a large stock of "Armco" Ingot Iron at all times in standard sizes. Gauges No. 10 to No. 28 inclusive.

FULL FINISHED STEEL SHEETS

For Fenders, Panels, etc.

These sheets are of a special analysis mild open hearth steel, made especially for auto bodies, fenders, panels, etc. Every sheet must pass a rigid inspection for surface defects, as they are especially desirable for japaning and enameling purposes. We are in position to furnish this material to meet almost any individual requirement.

PRICES QUOTED UPON APPLICATION

"Toncan" Metal



BLACK AND GALVANIZED

In "Toncan" the good sheet iron of early days has been surpassed in durability, by modern science working for supreme quality.

Every building owner wants his sheet metal work to last, yet is inclined to object to excessive original expense. "Toncan" offers the ideal combination of lasting service and moderate cost.

Care in Production

Selected ore, careful control of every step in production, frequent inspections, skilled workmen and sufficient time to get the best results in every process, make "Toncan" far superior to sheets produced by rapid, low-cost, tonnage methods. "Toncan" is even in structure, free from strains and in every way as perfect a sheet metal as can be produced.

Maximum Purity

By modern methods the impurities in "Toncan" have been reduced to the lowest point consistent with good working qualities and to this pure metal is added.

A Copper Content

Actual service records and extensive experiments have proven conclusively that the addition of a proper amount of copper adds greatly to the rust resistance of sheet metal. "Toncan" Metal possesses this added resistance to rust.

The "Toncan" trade mark stamped in green on galvanized sheets or die stamped on trough and pipe is your assurance of the greatest satisfaction and the lowest cost per year of service that can be obtained in sheet metal work.

For All Sheet Metal Work

The durability, evenness, purity and easy forming qualities of "Toncan" Metal sheets have led to their extensive use in nearly every form of sheet metal service, including window frames, ventilators, skylights, heating and ventilating ducts, refrigerators, tanks, troughs, corrugated culverts, flumes, trestle covers, machinery parts and vitreous enamel work, such as stove parts.

"Toncan" sheets can be supplied in wide variety of sizes and gauges for all forms of sheet metal work. Their use means real satisfaction.

PRICES QUOTED UPON APPLICATION

Open Hearth Black Sheets

One Pass, Cold Rolled, Box Annealed



STANDARD SIZES AND GAUGES CARRIED IN STOCK
LOWEST MARKET PRICES

PROMPT SHIPMENTS FROM MILL

FURNISHED IN STEEL, "ARMCO" INGOT IRON AND "TONCAN" METAL

Open Hearth, Uniform Color Blued Steel Sheets

(FOR STOVE PIPE)



CLEAN—SMOOTH—UNIFORM COLOR

STANDARD SIZES AND GAUGES ALWAYS IN STOCK

LOWEST MARKET PRICES

PROMPT SHIPMENTS FROM MILL

AVERAGE WEIGHTS OF BLACK SHEETS, STANDARD SIZES

Per Sheet and Per Bundle in Pounds

Gauges	16			18			20			22			24		
Size of Sheet	Wt. per Sheet	Wt. per Bundle	No. Sheets	Wt. per Sheet	Wt. per Bundle	No. Sheets	Wt. per Sheet	Wt. per Bundle	No. Sheets	Wt. per Sheet	Wt. per Bundle	No. Sheets	Wt. per Sheet	Wt. per Bundle	No. Sheets
24x96	40.00	160	4	32.00	160	5	24.00	144	6	20.00	140	7	16.00	144	9
28x96	46.67	140	3	37.33	140	4	28.00	140	5	23.33	140	6	18.67	140	8
30x96	50.00	150	3	40.00	150	4	30.00	150	5	25.00	150	6	20.00	140	7
36x96	60.00	120	3	48.00	144	3	36.00	144	4	30.00	150	5	24.00	144	6

Gauges	26			27			28			29			30		
Size of Sheet	Wt. per Sheet	Wt. per Bundle	No. Sheets	Wt. per Sheet	Wt. per Bundle	No. Sheets	Wt. per Sheet	Wt. per Bundle	No. Sheets	Wt. per Sheet	Wt. per Bundle	No. Sheets	Wt. per Sheet	Wt. per Bundle	No. Sheets
24x96	12.00	144	12	11.00	143	13	10.00	150	15	9.00	144	16	8.00	144	18
28x96	14.00	154	11	12.83	154	12	11.67	152	13	10.50	147	14	9.33	149	16
30x96	15.00	150	10	13.75	151	11	12.50	150	12	11.25	146	13	10.00	150	15
36x96	18.00	144	8	16.50	148	9	15.00	150	10	13.50	148	11	12.00	144	12

Stainless Iron

THIS LONG-SOUGHT-FOR MATERIAL IS NOW AN ASSURED FACT

Stainless Steel has been known for quite some time for use in the manufacture of cutlery; up to the present, however, it has not been possible to furnish a STAINLESS IRON with similar qualities of Stainless Steel which could be worked commercially.

We are now in position to furnish STAINLESS IRON in SHEETS, regular stock sizes and gauges. ITS uses are many, and in numerous instances it will outwear copper, brass, bronze or any other non-ferrous metal. Being an entirely new and special product, it is made to order only and price depends upon the gauge, size and quantity desired.

We will be glad to give full information as to ITS uses, also price, upon receipt of specification.

Wellsville Polished Sheets

Handsome dark blue polished product, specially adapted for high-class stoves, ranges, stove pipe, elbows, etc.

Leading gauges and sizes carried in stock. Also prompt shipments from mill.

IN BUNDLES OF ABOUT 150 POUNDS EACH OR IN CASES OF 300 POUNDS EACH

Blue Annealed Steel, "Armco" and "Toncan" Metal

Can furnish these sheets from mill promptly in most any size and gauge. Blue Annealed Steel carried in stock in a wide assortment of sizes and gauges.

Tinned Iron Sheets—4X

For Dairy and Creamery Work

30 x 72

36 x 72

36 x 84

LOWEST MARKET PRICES

Hoop Iron—Galvanized

Sizes $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$ and 2 inch

In coils of about 35 to 40 pounds

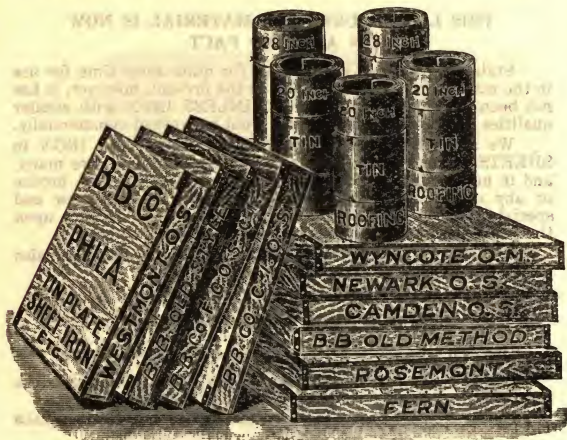
Angles, Channels and Bars

BLACK AND GALVANIZED

THE MOST CALLED FOR SIZES CARRIED IN STOCK

OTHER SIZES PROMPTLY FROM MILL. LOWEST MARKET PRICES

Copper Bearing Open Hearth Roofing Plates



In Boxes. 20 x 28 inches and 14 x 20 inches

B. B. Old Style—A strictly high-grade steel plate of finest quality. Made in the old style way. Carries 40 lbs. coating. Demand always increasing. Every sheet stamped with pounds coating and re-squared. Do not confuse with B. B. Old Method.

M-F Roofing Tin—32 pounds coating. The oldest of old style methods. Made today just as it was nearly a century ago. If properly laid and carefully painted, an M-F roof will last a life-time. Every sheet stamped with pounds coating and re-squared.

Westmont Old Style—A steel plate of fine quality, combining all the features of a high-grade plate. Carries 30 lbs. coating. Every sheet stamped with pounds coating and re-squared.

Wyncote Old Method—An extremely popular brand of steel plate, which also has the Old Method finish. Carries 25 lbs. coating. Every sheet stamped with pounds coating and re-squared.

WRITE FOR SAMPLES AND PRICES

Roofing Plates



Newark Old Style—Another of our very popular brands. This is a steel plate, also made in the old style way, and carries 20 lbs. coating. Once used, always used. Every sheet stamped with pounds coating and re-squared.



Camden Old Style—This steel plate has been rapidly winning itself into favor. It is a happy medium between the best and the cheapest. Being a very good article it compares favorably with the higher grades. Carries 15 lbs. coating and gives entire satisfaction. Entire sheet stamped with pounds coating and re-squared.



B. B. Old Method—This is our best steel plate of the cheaper qualities, carrying 12 lbs. coating. It has been on the market for many years, and is well known to the trade. Every sheet stamped with pounds coating. Do not confuse with B. B. Old Style.



Rosemont—A full weight prime plate. Very popular with the trade. Carries 8 lbs. coating. Every sheet stamped with pounds coating.



Norristown—Full weight prime Worcester grade. Carries 8 lbs. coating. A very good article and a ready seller. Every sheet stamped with pounds coating.



Fern—A 200-pound prime plate of the best quality procurable. Carries 8 lbs. coating. Nice finish. Every sheet stamped with pounds coating.



Ready Roll Continuous Tin Roofing

NONE BETTER

We furnish all of our grades of roofing plates in rolls.

This tin is resquared and put together by our own men who are paid by the week and not by the roll. This insures each seam being thoroughly soldered and the rolls well painted.

Every roll guaranteed to give perfect satisfaction. Furnished in 14, 20 and 28-inch widths.

WRITE FOR PRICES AND SAMPLES

Painted Both Sides at
a Small Extra Cost

Fire Door Tin

In Boxes 14 x 20 inches, carrying 20 pounds coating to meet
Fire Underwriters' Specifications

WRITE FOR PRICES

Bright Tin Plates



COKE AND CHARCOAL

VARIOUS GRADES AND THICKNESSES

Regular Sizes: 14 x 20 inches, 20 x 28 inches

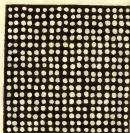
Odd sizes carried in stock as follows:

- 20 x 23 inches for 7-inch round pipe
- 20 x 26½ inches for 8-inch round pipe
- 20 x 29½ inches for 9-inch round pipe
- 20 x 32½ inches for 10-inch round pipe
- 20 x 39½ inches for 12-inch round pipe

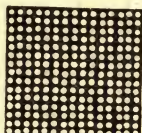
Other Sizes From Mill—Lowest Market Prices

Perforated Tin

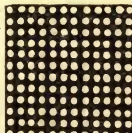
Made of full weight Bright Plates, Sheets 14 x 20



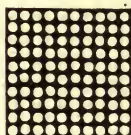
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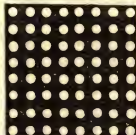
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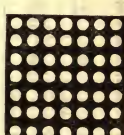
3



4



5



6

Numbers	1	2	3	4	5	6
Perforations per lineal inch.....	18	15	12	9	7½	7

Per dozen, net \$. Per sheet, net \$.

SPECIAL PRICE PER BOX

Sheet Zinc

LEADING SIZES. LOWEST MARKET PRICES PER POUND
SCHEDULE OF WEIGHT PER SHEET

U. S. Standard Gauge No.	26	25	24	23	21	20	19	18	16
M. & H. Zinc Gauge No.	9	10	11	12	14	15	16	17	19
24 x 84.....	9.4	10.5	12.6	14.7	18.9	21.0	23.5	26.2	31.5
26 x 84.....	10.2	11.4	13.7	16.0	20.5	22.8	25.6	28.4	34.2
28 x 84.....	10.9	12.2	14.7	17.1	22.0	24.5	27.4	30.5	36.7
30 x 84.....	11.8	13.2	15.8	18.4	23.6	26.2	29.4	32.8	39.4
32 x 84.....	12.6	14.1	16.9	19.7	25.3	28.3	31.4	35.0	42.0
34 x 84.....	13.4	15.0	18.0	20.9	26.9	29.9	33.4	37.2	44.8
36 x 84.....	14.1	15.8	18.9	22.0	28.4	31.5	35.3	39.3	47.2
40 x 84.....	15.7	17.6	21.0	24.6	31.6	35.1	39.3	43.8	52.6
44 x 84.....	17.2	19.3	23.1	27.0	34.7	38.6	43.2	48.1	57.8
48 x 84.....	18.8	21.0	25.2	29.1	37.8	42.0	47.0	52.4	63.0
52 x 84.....	20.4	22.8	27.4	31.9	41.0	45.6	51.0	56.9	68.4

We can also furnish from stock No. 9—36"x96"

Zinc Gauge can be maintained only approximately



Extras for Hot Rolled Sheet Copper Over Base Price

Prices are for 100 pounds per item in One Order

BASE PRICE (Hot Rolled).....Cents per Pound. Date.....										Lght'r than 8 oz. .0108"									
SIZE OF SHEETS																			
WIDTHS	LENGTHS	CENTS PER POUND OVER BASE PRICE																	
		Inc. 64 oz. .0864" to 1/2 in.	Inc. 48 oz. .0648" to 3/4 in.	Inc. 32 oz. .0432" to 1 in.	Inc. 24 oz. .0324" to 1 1/4 in.	Inc. 20 oz. .027" to 1 1/2 in.	Inc. 18 oz. .0243" to 1 3/4 in.	Inc. 16 oz. .0216" to 2 in.	15 oz. .0203" to 2 1/8 in.	14 oz. .0189" to 2 1/4 in.	13 oz. .0176" to 2 3/8 in.	12 oz. .0162" to 2 1/2 in.	11 oz. .0149" to 2 3/4 in.	10 oz. .0135" to 3 in.	9 oz. .0122" to 3 1/4 in.	8 oz. .0108" to 3 1/2 in.			
Inc. 6 ins. not wider than 10 ins.	Inc. 6 ins. not longer than 24 ins.	Base	Base	Base	Base	2	2 1/2	3	3 1/2	5	7	9	11 1/2	14	17	21			
	Longer than 24 ins. not longer than 60 ins.	Base	Base	Base	Base	1	1 1/2	2	2 1/2	4	5	7	8 1/2	10	12	14			
	Longer than 60 ins. not longer than 96 ins.	Base	Base	Base	Base	1	1 1/2	2	2 1/2	4 1/2	5 1/2	7 1/2	9 1/2	11	13	16			
	Longer than 96 ins. not longer than 120 ins.	Base	Base	Base	Base	2	2 1/2	3	3 1/2	5	6 1/2	8	11	12 1/2	15	18			
	Longer than 120 ins. not longer than 200 ins.	Base	Base	Base	Base	3	3 1/2	4	4 1/2	5 1/2	7 1/2	9 1/2	13	15	18	21			
Wider than 10 ins. not wider than 20 ins.	Not longer than 24 ins.	Base	Base	Base	Base	1	2	2 1/2	3	3 1/2	5	6 1/2	8	9 1/2	12	15	18		
	Longer than 24 ins. not longer than 60 ins.	Base	Base	Base	Base	1 1/2	1	1 1/2	2	2 1/2	3	4	5	7	9	12	15		
	Longer than 60 ins. not longer than 96 ins.	Base	Base	Base	Base	1 1/2	1	1 1/2	2	2 1/2	3 1/2	4 1/2	5 1/2	8	10 1/2	14	17		
	Longer than 96 ins. not longer than 120 ins.	Base	Base	Base	Base	1	1 1/2	2	2 1/2	3	4	5	6	9	12	16	19		
	Longer than 120 ins. not longer than 200 ins.	Base	Base	Base	Base	1 1/2	2 1/2	3	3 1/2	4	5	6	8	11	14	18	22		
Wider than 20 ins. not wider than 28 ins.	Not longer than 24 ins.	Base	Base	Base	Base	2	3	3 1/2	4	4 1/2	5	6 1/2	9	12 1/2	15	18	21	25	
	Longer than 24 ins. not longer than 60 ins.	Base	Base	Base	Base	1	1 1/2	2	2 1/2	3	4	5	6 1/2	8 1/2	11	14	17	21	
	Longer than 60 ins. not longer than 96 ins.	Base	Base	Base	Base	1 1/2	2	2 1/2	3	3 1/2	4 1/2	7	9	11 1/2	13 1/2				
	Longer than 96 ins. not longer than 120 ins.	Base	Base	Base	Base	2	3	4	5	6	7	10	13	16	19				
	Longer than 120 ins. not longer than 200 ins.	Base	Base	Base	Base	2	3	4	5	6	7	10	13	16	19				

CIRCLES

Over 8" diameter to 20", inc. 8c lb. advance over prices of sheet copper required to cut them from.

Over 20" diameter, 10c lb. advance over prices of sheet copper required to cut them from.

Less than 8" diameter Special Prices

SEGMENTS AND PATTERNS

PRICES QUOTED UPON APPLICATION

COLD ROLLING

	Sheets	Circles
14 oz. per sq. ft. and heavier.....	3c lb.	4 1/2c lb.
Lighter than 14 oz.....	6c lb.	8c lb.
Cold Rolled Tinned Sheets and Circles, 1/2c lb. extra over above prices.		
Cold Rolled and Annealed Copper Sheets and Circles take same price as Cold Rolled or Hard Copper of corresponding dimensions and thickness.		
Special Prepared Copper	Prices upon application	

POLISHING

Over Price for Cold Rolled Copper

	48" and less	Over 48" to 96"
10" wide and under.....	6c per sq. ft.	7c per sq. ft.
Over 10" to 36", inc.....	5c per sq. ft.	6c per sq. ft.
Over 36"	8c per sq. ft.	9c per sq. ft.
Double the above prices if polished on both sides.		
Over 96" lengths	Special Prices	

TINNING

	96" and less	Over 96"
20" wide and under.....	6c per sq. ft.	7c per sq. ft.
Over 20" to 48", inc.....	7c per sq. ft.	8c per sq. ft.
Over 48"	8c per sq. ft.	9c per sq. ft.

Double the above prices if tinned on both sides.

For tinning the edges of sheets, one or both sides, price shall be the same as for tinning all of one side of the specified sheet.

For tinning circles and pattern sheets, the prices per sq. ft. are based upon the square of the circle or the sheet from which the piece is cut.

FLAT COPPER BOTTOMS

Oval and Round

TINNED ONE SIDE

Base.....cents per pound. Date.....

Cents per Pound Advance Over Base Price of Copper Bottoms.

24 oz. per square foot and heavier.....	Base
Inc. 22 oz. to 24 oz. per square foot.....	2c lb.
Inc. 20 oz. to 22 oz. per square foot.....	2 1/2c lb.
Inc. 18 oz. to 20 oz. per square foot.....	3 1/2c lb.
Inc. 16 oz. to 18 oz. per square foot.....	4 1/2c lb.
15 oz. per square foot.....	5 1/4c lb.
14 oz. per square foot.....	6 1/4c lb.
13 oz. per square foot.....	7 1/4c lb.
12 oz. per square foot.....	8 1/4c lb.
11 oz. per square foot.....	9 1/4c lb.
10 oz. per square foot.....	10 1/4c lb.
Lighter than 10 oz. per square foot	Special Prices
Round Copper Bottoms and Flats, Tinned One Side, 8 in. diameter to 17 in. diameter, both inclusive, and 14 oz. and heavier, 3c lb. advance over price of Ovals.	
Lighter than 14 oz. 4c lb. advance over price of Ovals.	
Less than 8" diameter Special Prices	
Copper Circles, Tinned One Side, over 17" dia. not classed as Copper Bottoms.	
Polished Copper Bottoms and Flats, 5c per sq. ft. extra. For polishing circles and flats, the prices per sq. ft. are based upon the square of the circle or the sheet from which the piece is cut.	

Sheet Copper

We are headquarters for Sheet Copper of every description, and carry, at all times, a very large stock of all regular sizes and gauges, and are prepared to ship odd sizes from mill promptly.

We have installed in our plant a crimping machine and can crimp sheets for cornice work on short notice.

Thickness Inches	Eng. Stbs.	Amr. B-S.	Lbs. per sq. ft.	Ozs. per sq. ft.	24x48 per sht.	30x60 per sht.	48x72 per. sht.
.300	1	..	13.80	221	111	173	332
.289	..	1	13.29	213	107	166	314
.284	2	..	13.06	209	105	163	310
.259	3	..	11.91	191	96	140	237
$\frac{1}{4}$.258	..	2	11.87	190	95	149	235
.238	4	..	10.95	175	88	137	263
.229	..	3	10.53	168	84	131	252
.220	5	..	10.12	162	81	127	248
.204	..	4	9.38	150	75	117	225
$\frac{1}{16}$.203	6	..	9.34	149	75	117	224
.182	..	5	8.37	134	67	106	200
.180	7	..	8.28	132	66	104	198
$\frac{1}{16}$.165	8	..	7.60	121	61	95	182
.162	..	6	7.45	119	60	93	179
.148	9	..	6.81	109	55	85	164
.144	..	7	6.62	106	53	83	159
.134	10	..	6.16	99	50	77	149
$\frac{1}{8}$.128	..	8	5.89	94	47	74	141
.120	11	..	5.52	88	44	69	132
.114	..	9	5.24	84	42	66	126
.109	12	..	5.01	80	40	62	120
$\frac{1}{10}$.102	..	10	4.69	75	38	59	113
.095	13	..	4.37	70	35	55	105
.091	..	11	4.19	67	34	52	101
$\frac{1}{12}$.083	14	..	3.82	61	31	48	92
.081	..	12	3.73	60	30	47	90
.072	15	13	3.31	53	27	41	80
$\frac{1}{16}$.065	16	..	2.99	48	24	37	72
.064	..	14	2.95	47	24	37	71
.058	17	..	2.67	43	22	33	65
.057	..	15	2.62	42	21	33	63
.051	..	16	2.35	38	19	29	57
.049	18	..	2.25	36	18	28	54
.045	..	17	2.07	33	17	26	51
.042	19	..	1.93	31	16	24	48
.040	..	18	1.84	29	15	23	45
.036	..	19	1.66	27	14	21	42
.035	20	..	1.61	26	13	20	39
$\frac{1}{32}$.032	21	20	1.47	24	12	18	36
.028	22	21	1.29	21	11	16	33
.025	23	22	1.15	18	9	14	27
.023	..	23	1.06	17	9	13	26
.022	24	..	1.00	16	8	12.5	24
.020	25	24	.92	15	7.5	11.5	22.5
.018	26	25	.83	13	6.5	10.3	19.5
$\frac{1}{64}$.016	27	26	.74	12	6	9.2	18
.014	28	27	.64	10	5	8	15
.013	29	28	.60	9.5	5	7.5	15
.012	30	..	.55	9	4.5	6.8	13.5
.011	..	29	.51	8	4	6.3	12
.010	31	..	.46	7	3.8	5.7	10.5
.009	32	31	.41	7	3.5	5	10.5
.008	33	32	.37	6	3	4.6	9
.007	34	33	.32	5	2.5	4	7.5
.006	..	34	.28	4	2	3.5	6
.005	35	35	.23	4	2	2.8	6
.0045	..	37	.21	3	1.5	2.6	4.5
.004	36	38	.18	2.88	1.44	2.2	4.26
.0035	..	39	.16	2.56	1.28	2.1	3.84
.003	..	40	.14	2.24	1.12	1.7	3.73

Variations in the gauge of the rolled metal must be expected in practice.

Copper between decimals, as shown above, takes the price of the nearest decimal.

Copper in Rolls

BASE PRICE QUOTED UPON APPLICATION

Base Price.....

Extras Over Base Price, Cents Per Pound

Ounces per Sq. Ft. and Equivalent Thickness in Inches		Nearest B & S Gauge	Over 2 in. to 8 in. Inch.	Over 8 in. to 12 in. Inch.	Over 12 in. to 14 in. Inch.	Over 14 in. to 16 in. Inch.	Over 16 in. to 18 in. Inch.	Over 18 in. to 20 in. Inch.
Ounces	Inches							
24	.0324	20	Base	$\frac{1}{2}$	2	3	5	7
20	.0270	21	$\frac{1}{2}$	1	$2\frac{1}{2}$	4	6	8
18	.0243	22	$\frac{1}{2}$	1	$2\frac{1}{2}$	4	6	8
16	.0216	23	1	$1\frac{1}{2}$	3	5	7	9
15	.0203	24	1	$1\frac{1}{2}$	3	5	7	9
14	.0189	25	$1\frac{1}{2}$	2	4	6	8	10
13	.0176	25	$1\frac{1}{2}$	2	4	6	8	10
12	.0162	26	$1\frac{1}{2}$	2	4	6	8	10
11	.0149	27	2	3	5	7	9	11
10	.0135	27	2	3	5	7	9	11
9	.0122	28	2	3	5	7	9	11
8	.0108	29	$2\frac{1}{2}$	4	6	8	10	12
7	.0095	30	$2\frac{1}{2}$	4	6	8	10	12
6	.0081	32	4	6	8	10		
		33	5	7	9			
		34	8	10	12			
		35	11	14				
		36	14	18				

Variations in the gauge of the rolled metal must be expected in practice.

Copper between decimals, as shown above, takes the price of the nearest decimal.

Narrower widths than shown above, prices on application.

No charge for Cold Rolling copper in Rolls or Conductor Strips.

Conductor Pipe Stock

Base Price.....

Extras Over Base Price, Cents Per Pound

Ounces per Sq. Ft. and Equivalent Thickness in Inches		Nearest B & S Gauge	Over 2 in. to 8 in. Inch.	Over 8 in. to 12 in. Inch.	Over 12 in. to 14 in. Inch.	Over 14 in. to 16 in. Inch.	Over 16 in. to 18 in. Inch.	Over 18 in. to 20 in. Inch.
Ounces	Inches							
18	.0243	22	$\frac{1}{2}$	1	$2\frac{1}{2}$	4	6	8
16	.0216	23	1	$1\frac{1}{2}$	3	5	7	9
14	.0189	25	$1\frac{1}{2}$	2	4	6	8	10

NOTICE—No Charge for Cutting to Lengths of 6-8 or 10-Foot
Conductor Stock

Crimped Copper and Zinc

Regular Cornice Crimp

We maintain our own crimping machine and are prepared to crimp sheets on short notice.

PRICES QUOTED UPON APPLICATION

Sheet Lead

Approximate thickness	$\frac{1}{64}$	$\frac{1}{48}$	$\frac{1}{32}$	$\frac{1}{25}$	$\frac{3}{64}$	$\frac{1}{16}$	$\frac{5}{64}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{1}{4}$	in.
Weight per square foot	1	1 $\frac{1}{4}$	2	2 $\frac{1}{2}$	3	4	5	6	8	16	lbs.

Plastering Wire

Black and Galvanized

100 lineal feet in each roll

Sizes—12, 14, 16, 18, 20 inches

Price per square foot.....\$



United States Standard Gauge

For All Uncoated Sheets and Plates of Iron or Steel

Number of Gauge	Approx. Thickness in Fractions of an Inch	Approx. Thickness in Decimal Parts of an Inch	Weight per sq. ft. in Ounces Avoirdupois	Weight per sq. ft. in Pounds Avoirdupois
10	9-64	.140625	90	5.625
11	1-8	.125	80	5.
12	7-64	.109375	70	4.375
13	3-32	.09375	60	3.75
14	5-64	.078125	50	3.125
15	9-128	.0703125	45	2.8125
16	1-16	.0625	40	2.5
17	9-160	.05625	36	2.25
18	1-20	.05	32	2.
19	7-160	.04375	28	1.75
20	3-80	.0375	24	1.5
21	11-320	.034375	22	1.375
22	1-32	.03125	20	1.25
23	9-320	.028125	18	1.125
24	1-40	.025	16	1.
25	7-320	.021875	14	.875
26	3-160	.01875	12	.75
27	11-640	.0171875	11	.6875
28	1-64	.015625	10	.625
29	9-640	.0140625	9	.5625
30	1-80	.0125	8	.5

Expanded Metal Lath



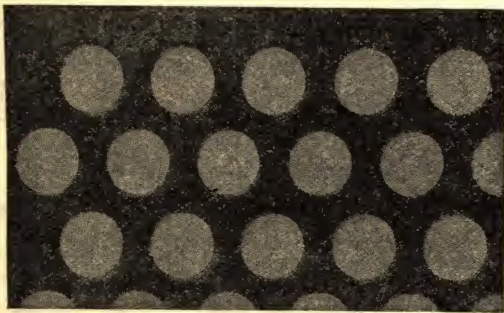
This is today the most popular metal lath on the market. Its small mesh absorbs a very light coat of plaster and the peculiar twist formation of the strands prevents shearing of plaster while affording a firm permanent base on which to work.

This lath has the approval of the United States Government's supervising architects and has been used extensively in Government work. It is stamped from special open hearth steel sheets; not drawn or stretched from sheets that have been merely slit. It has no raw edges.

No. 20 Gauge, Painted—Size Sheet, 28" x 96"—29 Sq. Yds. to Bundle

PRICE, PER SQUARE YARD, \$ _____

Perforated Guard Metal



No. 22 Gauge Steel— $\frac{1}{2}$ Inch Round Perforations

This material can be cut to any desired shape and will not tear or stretch. It is easily cleaned, and will not catch and hold particles of waste or cloth used in wiping. It has a smooth surface, with no projections to catch the hands of workmen.

Size sheets for prompt shipment:

24" x 96"

26" x 96"

28" x 96"

30" x 96"

36" x 96"

24" x 120"

26" x 120"

28" x 120"

30" x 120"

36" x 120"

NOTE—See Angles, Channels and Bars, Page 47

Genasco Smooth Surface Roofing



Genasco Smooth Surface Roofing is the ideal covering for all buildings where a roofing less ornamental than shingles is desired. It is widely used on farm buildings, factories, train sheds, roundhouses, warehouses, lumber yards and all places of storage.

Genasco Smooth Surface Roofing is a long-lived, economical product which gives complete weather protection. It has a backbone of tough rag felt and gets its unsurpassed waterproof wear and weather-resisting qualities by reason of the fact that it is saturated and then coated with Trinidad Lake Asphalt Cement.

Genasco Smooth Surface Roofing is packed in rolls of 108 square feet each, sufficient to cover 100 square feet of roofing surface. Made in three weights: Medium, approximate average weight 45 lbs. per roll. Heavy, approximate average weight 55 lbs. per roll. Extra heavy, approximate average weight, 65 lbs. per roll.

Genasco Slate Surface Roofing is a durable, attractive roofing made of the same quality materials as Genasco Smooth Surface Roofing. It has a coating of granulated red, green or blue-black slate firmly imbedded in its upper surface which makes it fire-resisting. Weight: 95 to 100 lbs. per roll of 108 square feet.

Genasco Slate Surface Roofing and Genasco Smooth Surface Roofing is packed with Kant Leak Kleets, a scientific roof fastening device that insures the perfect application of roll roofing.

Prices on application.

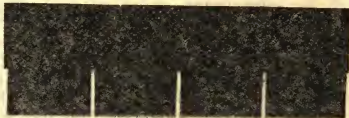
Genasco Sealbac Strip Shingles

The architectural adaptability of these shingles makes them an ideal roofing for residences, bungalows, churches, schools, hospitals, garages, stables and in fact any building having a pitched roof.

Each of these strip shingles is $32\frac{1}{2}$ inches long and either 10 or $12\frac{1}{2}$ inches deep, according to choice. They are laid with 4 inches exposed to the weather. 112 of the 10-inch and 111 of the $12\frac{1}{2}$ -inch shingles are sufficient to cover 100 square feet of roofing surface.

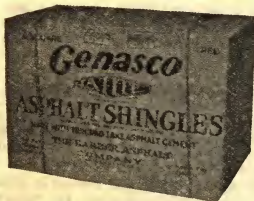
Like all Genasco Roofings, Genasco Sealbac Strip Shingles have a backbone of tough rag felt and are saturated and then coated with Trinidad Lake Asphalt Cement, which is famous for its waterproofing qualities. These shingles are surfaced with granulated slate in natural unfading colors—red, green or blue-black.

A thick layer of Trinidad Lake Asphalt Cement on the underside of the shingle provides the famous "Sealbac," which not only protects the body of the shingle from attacks of moisture underneath but assists in the closer adhesion of the shingles.



Genasco Sealbac Strip Shingles

Genasco Latite Shingles



These shingles make a beautiful, durable and firesafe roof and are made of tough rag felt, chosen because of its great strength and power of absorbing the waterproofing saturant. Genasco Latite Shingles are covered with Trinidad Lake Asphalt Cement, a product containing all the weather-resisting qualities which make it a long-lasting roof.

A simple key device on each Genasco Latite Shingle makes it possible for the shingles to be locked together on the roof so that the weather cannot budge them.

Genasco Latite Shingles are furnished in red, green or blue-black colors and require no painting or staining. They are square except for a turned under corner and lay up to a hexagonal shape when applied on the roof.

Genasco Latite Shingles are furnished in two sizes: 12" x 12" and 16" x 16". 82 of the 16" x 16" shingles will cover 100 square feet or one square of roofing surface. 172 of the 12" x 12" Genasco Latite Shingles will cover one square of roofing surface. Starters for the 16" x 16" shingle are shipped 54 to the package and are sufficient for 100 lineal feet, while packages containing starters for the smaller shingle contain 71 starters, which are sufficient to cover 100 lineal feet. Measure length of eaves to determine number of starters required for roof. Prices on application.



Phoenix Ready Roofing (SMOOTH OR SLATE SURFACED)

Phoenix Ready Roofing meets the demand for a medium priced, dependable roofing for buildings where roofing less expensive than shingles is desired.

Phoenix Smooth Surface Roofing is waterproofed with the highest grade domestic asphalt obtainable. It is furnished in two weights: Medium, approximate average weight 45 lbs. per roll. Heavy, approximate average weight, 55 lbs. per roll. Each roll contains 108 square feet, sufficient to cover 100 square feet of roofing surface.

Phoenix Slate Surface Roofing—made of the same quality materials as the Smooth Surface Roofing—is coated with a thick layer of granulated slate deeply imbedded in the upper surface of the roofing. Furnished in red, green or blue-black colors.

Phoenix Slate Surface Roofing is packed in rolls containing 108 square feet. Approximate average weight per roll, 80 to 85 lbs.

Full directions for laying are packed in each roll of Phoenix Smooth Surface and Slate Surface Roofing. Each roll is furnished with Pyramid Kaps, an excellent roof fastening device, or large head nails and liquid lap cement.

Utility Smooth Surface Roofing

This is a substantial, economical roofing made of felt and waterproofed with an asphalt compound which contains no coal tar.

Furnished in three weights: Light, approximate average weight, 35 lbs. per roll. Medium, approximate average weight, 45 lbs. per roll. Heavy, approximate average weight, 55 lbs. per roll. Each roll contains 108 square feet or sufficient to cover 100 square feet of roofing surface. Each roll contains full directions for laying and a supply of bright nails and cement. Prices on application.

Tarred and Slaters' Felts

SLATERS' FELT

Rolls, 30 lbs., 500 square feet, price, \$_____

SINGLE PLY TARRED FELT

3 Grades

About 12, 15 and 22 lbs. per 100 square feet

Price, per ton, \$_____

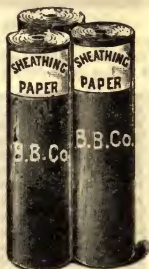


Red Rosin Sized Sheathing

Weatherproof Brand

No. 20, about 20 lbs. per roll, 500 square feet, per roll, \$_____

No. 40, about 40 lbs. per roll, 500 square feet, per roll, \$_____



Asbestos Paper

This sheathing is manufactured from a mineral fibre, possessing the highest fire-proof and non-conducting qualities, rendering it a valuable protection against fire and is extensively used for covering heater pipes and similar purposes.

Furnished in rolls 36 inches wide, graded 6, 8, 10, 14 and 16 pounds per 100 square feet, and in rolls of 50 and 100 pounds each.

Price, in 1,000 lb. lots or more, \$_____ per 100 lbs., net.

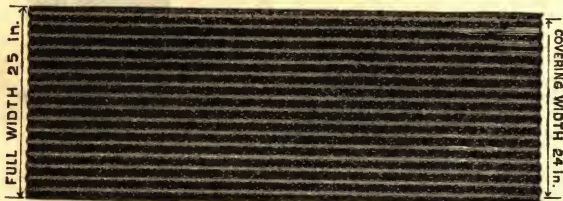
Price, less than 1,000 lb. lots, \$_____ per 100 lbs., net.



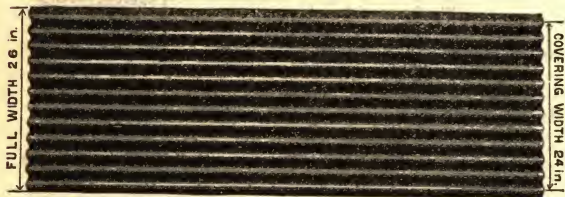
Corrugated Sheets, Steel, "Armco" Ingot Iron and "Toncan" Metal

PAINTED OR GALVANIZED

We desire to call your attention to the following illustrations of Corrugated Sheet Iron for Roofs, Sides, Ceilings and Partitions for fireproof buildings.



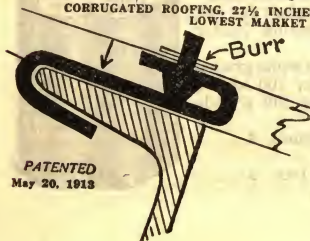
Corrugations one and one-quarter inches from centre to centre, and three-eighths of an inch deep. This is used mostly for Ceilings, Sidings and Partitions. Sheets when corrugated measure 25 inches wide and will cover 24 inches from centre to centre of outside corrugations.



Corrugations two and one-half inches from centre to centre, and five-eighths of an inch deep. This style is suitable for Roofing, Siding, Partitions, Curved Ceilings and Awnings. Sheets when corrugated measure 26 inches wide, and will cover 24 inches from centre to centre outside of corrugations.

Corrugated Sheets, 5, 6, 7, 8, 9, 10, 11 and 12 feet in length. In any gauge from Nos. 16 to 28 inclusive.

NOTE—11 and 12 feet lengths take a small extra
CORRUGATED ROOFING. 27½ INCHES WIDE. ALSO FURNISHED
LOWEST MARKET PRICES



Pfeifer Clip

For fastening corrugated roofing to angles and purlins. Save time and money and make a much better job than straps.

Heavily galvanized.

PRICE PER 1000.....\$

SOLD IN ANY QUANTITY DESIRED

Two Inch Roll, Corrugated Ridge Roll

TO FIT 1½ AND 2½ INCH CORRUGATIONS



FOR PLAIN RIDGE ROLL SEE PAGE 109

Corrugated End and Side Wall Flashing

CUT ILLUSTRATES END WALL FLASHING



PAINTED OR GALVANIZED
PRICES QUOTED UPON APPLICATION

Lead Washers

Full Size



No. 1

(3-32 in. hole)

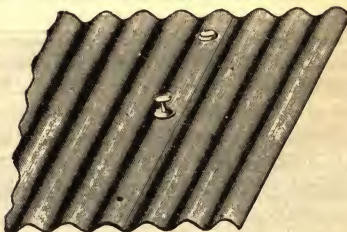
Full Size



No. 2

(¼ in. hole)

One Pound
contains over
300 Washers



PRICE PER POUND, \$ _____



Actual Size
of Washer
and Nail

The illustration shows the application of Lead Washers to corrugated iron roofing and siding. The advantage in using same is that it makes an absolutely water-tight joint, prevents leaking and rusting at the nail hole, thereby prolonging the life of a roof.

About one pound of these Washers are required to lay three squares of corrugated roofing.

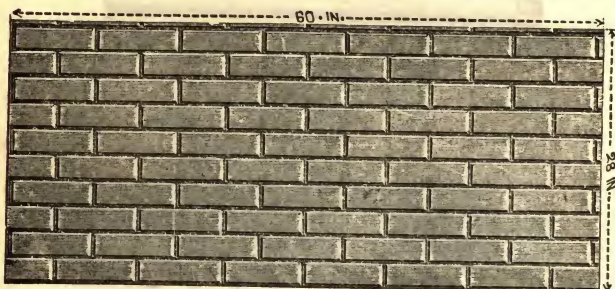
About one pound of 1½ inch barbed roofing nails are required to lay one square of corrugated roofing.

Clinch Nails



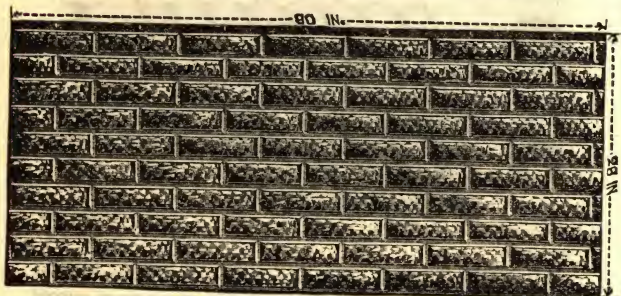
For fastening corrugated sheets to iron purlins or iron framework. Made of No. 9 wire, galvanized in lengths from 3 to 14 inches.

Pressed Steel, "Armco" Ingot Iron and "Toncan" Metal Brick Siding



Rock Face Brick Siding

STEEL, "ARMCO" INGOT IRON AND "TONCAN" METAL



Furnished Painted and Galvanized

In beauty of appearance, durability, cheapness and as a protection against fire, we claim this Siding has no equal.

Manufactured of the best material and shipped in sheets of 28x60 inches containing $11\frac{1}{2}$ square feet to the sheet.

A square of Brick Siding consists of $8\frac{1}{4}$ sheets, 60 inches long by 28 inches wide; painted, will weigh 70 pounds. Galvanized, 85 pounds.

Steel, "Armco" Ingot Iron and "Toncan" Metal V Crimp Roofing



The simplest style and cheapest form of any metal roof manufactured and for many purposes as satisfactory as more expensive kinds.

We recommend this roof to those wishing a good, cheap and durable covering for barns, warehouses, saw mills, cotton sheds, etc.

Illustration shows Pressed V Crimp Roofing as shipped. Sheet will lay 24 inches from centre to centre of crimps, and is furnished in 5, 6, 7, 8, 9 and 10-foot lengths. Nails and dry paint, when ordered, are also furnished but are charged separately.

One square consists of $6\frac{1}{4}$ sheets, 24x96 inches, or equivalent, and will lay one square less the lock or lap at end of sheets.

Triangular wood reinforcing strips furnished at an extra charge when ordered.

Three V Crimp Roofing

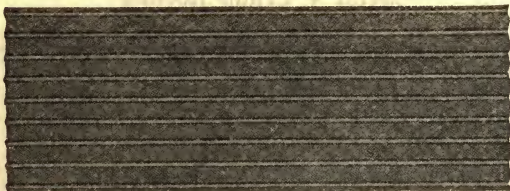


Cut shows our Pressed Three V Crimp Roofing. The centre V stiffens the sheet and prevents rattling. The sheet lays two feet, being 24 inches from centre to centre of outside V. The number of sheets to a square, quality and weight, same as Two V Crimp.

Also Five V Crimp Roofing furnished.

Beaded Ceiling or Siding

PAINTED OR GALVANIZED



Covering width, 24 inches. Standard lengths, 5, 6, 7, 8, 9, and 10 feet.
Beads are 3 inches from centre to centre



Roll Roofing

GALVANIZED OR PAINTED

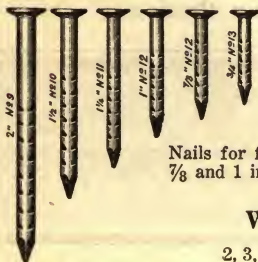
Made of Best Quality Soft Steel, "Armco"
Ingot Iron or "Toncan" Metal

One roll will cover 100 square feet of surface. The above always furnished without cleats unless they are ordered.

Price per roll. \$_____

Barbed Roofing Nails

Full Size Illustration



	Per Keg
3/4 inch, No. 13 wire, \$	_____
7/8 inch, No. 12 wire, _____	_____
1 inch, No. 12 wire, _____	_____
1 1/4 inch, No. 11 wire, _____	_____
1 1/2 inch, No. 10 wire, _____	_____
2 inch, No. 9 wire, _____	_____

Small Head Barbed Roofing
Nails for flat seam roofing furnished in 3/4,
7/8 and 1 inch sizes when so ordered.

Wire Slating Nails

2, 3, 4 and 6d. in 100-pound kegs

B. B. Special Galvanized Slaters' Nails

Needle Point

More nails to the pound. Easier driven and less slate breakage.

Perfection Extension Ladder

A ONE-MAN LADDER"

The Strongest, Safest and Lightest Ladder Made—Averaging
Two Pounds to the Foot

One endless rope operates
it.

Rope can be changed to
either side.

No rope or fixtures in the
way.

Rope can be instantly de-
tached for disconnection of
ladder.

No complicated parts to get
out of order.

Easy and absolutely sure to
operate.

The catch irons have unlim-
ited strength and durability.

Can be instantly taken apart
and used as single ladders
when desired.

Both sections equal lengths
and extended length is two
feet less than the total.

DIMENSIONS

Sides $1\frac{1}{2}$ x 3 inches

Rungs $1\frac{1}{2}$ inch—Rise 12 inches

Extreme width, $19\frac{1}{2}$ inches

MADE IN

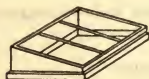
Lengths 20, 24, 28, 30, 32, 36
and 40 feet

This ladder is positively the best and safest extension ladder on the market. The sides are made of straight grain white spruce, rungs hand shaved and turned white oak, catch irons of malleable iron galvanized, bottom guides of malleable iron, top guides of hand forged wrought iron.

LET US QUOTE YOU ON A GOOD LADDER



Galvanized Steel Skylights



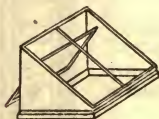
No. 1

This Skylight is made for flat roof where curb runs parallel with roof and does not afford sufficient pitch to properly drain skylight. We do not recommend this style in sizes over twelve square feet. When larger it is advisable to build curb of wood with the desired pitch, see cut "A."



No. 1A

This type can be used where the roof has sufficient pitch and curb can be built parallel with roof. When ordering give measurement of top and sides, or indicate which way water runs. This Skylight can be made to ventilate by applying hinges and scuttle lifting attachment on sizes up to 3 feet by 4 feet, but is not recommended in larger sizes.



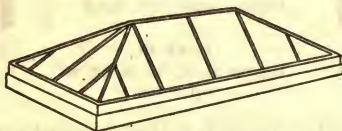
No. 3

This is a single-pitch Skylight having metal vent shutter on back, operated by chain. Curb for this type should be built level. Can be supplied with glass in shutter.



No. 4

This Skylight is made with metal ends for level curb up to 4 feet wide. For Skylight wider, the pitch should be built of wood similar to cut "B." In ordering Skylights give size on ends and bottom, also pitch of curb.

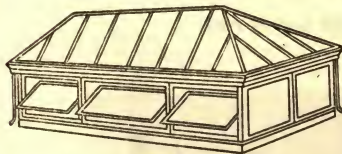


No. 6

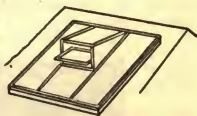
Hip Skylights for level curb. Top built to pitch of four or six inches to the foot.

All Skylights Furnished of Galvanized Steel, "Armco" Ingot Iron, "Toncan" Metal and Copper

Galvanized Steel Skylights



No. 9

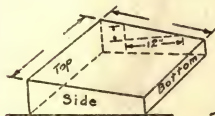


No. 12

Monitor Skylight with hip top and side opening sash. These Skylights are made without gutter and spout unless ordered.

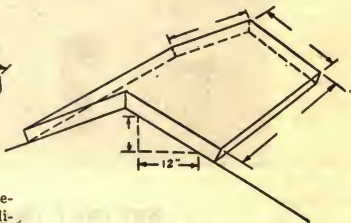
Single-pitch Skylight with vent hood, showing method of ventilation.

NOTE—In ordering Skylights, give size at top, bottom and sides. Also give pitch of curb. State kind of material desired and kind of glass wanted.



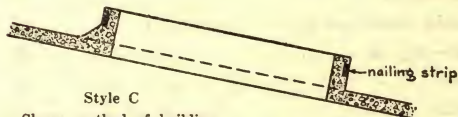
Style A

Shows curb for single-pitch Skylight showing dimension lines.



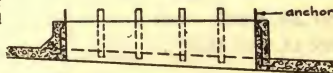
Style B

Shows curb for double-pitch Skylight with dimension lines and rise on pitch.



Style C

Shows method of building concrete curb with imbedded nailing strips.



Style D

Shows method of building concrete curb with metal anchors imbedded in same.

Skylight Gearing

FOR ½-INCH PIPE



NET PRICE LIST

Nos. 1-2-3, Lifting Power	\$1 10
Nos. 4-5, Extension .....	.55
No. 6, Louvre Bracket—3 in. ....	.15
No. 7, Arm—4½ in. ....	.20
No. 8, Hinge .....	.07
No. 9, Collar .....	.08
No. 10, Handle—male .....	.12
No. 11, Pole Hook .....	.40

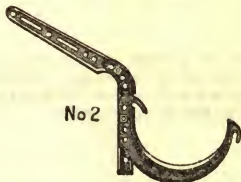
B. B. Favorite Gutter Hangers

ORNAMENTAL AND STRONG
FOR OPEN, CLEAR, EXPANDING GUTTERS



No. 1 is clamped direct to the metal roof, needing only one bolt through the iron. A valuable article for awnings and corrugated roofs.

For large gutters use No. 16 stem giving one inch larger drip projection.



No. 2 is nailed to the side of rafter for any desired angle, either flat or extra steep roofs.

See No. 11 on page 73 for same pattern in one piece.

No. 3 is same as No. 8 or 13. Hinged to drive with any pitch desired.



No. 4—This hanger, by the use of the No. 4 plate and Nos. 1, 4 and 16 interchangeable stems, will solve many difficult problems in gutter hanging.

Fig. No. 1 shows No. 4 plate with No. 16 stem which can be fastened underneath exposed rafters and is adjustable to any pitch.

Fig. No. 2 shows No. 4 plate with No. 1 stem. This can be used to fasten under overhanging eaves where the rafters are boarded in and is also adjustable to any pitch from horizontal to vertical.

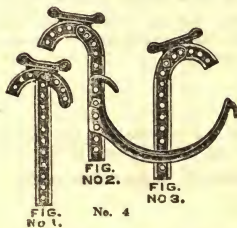


Fig. No. 3 shows No. 4 plate with No. 4 stem. This combination is adjustable to the same degree as Fig. No. 2, the only difference being that the gutter can be thrown back under the eaves with the use of this stem where the overhang of the eave is not sufficiently long.

In order to show the possibilities of this shank we will be glad to furnish upon request sample of No. 4 plate and Nos. 1, 4 and 16 stems.

LOOK ON EACH PIECE AND SEE OUR COPYRIGHTED TRADE MARK B. B.

FOR PRICES SEE PAGES 77 to 79

SAMPLES SENT FREE UPON REQUEST

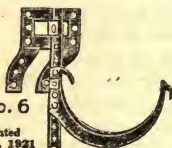
B. B. Favorite Gutter Hangers

To suit any pitch every $\frac{1}{4}$ inch



No. 5 will span over various shaped mouldings and is easily bent larger or smaller before nailing to the eave.

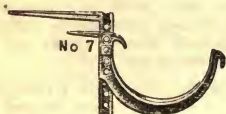
For large projection of the shingle use No. 1 stems with this plate.



No. 6

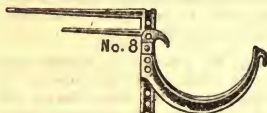
Patented
July 19, 1921

No. 6 is made specially to nail against "O. G." mouldings. The two stays are made to fit in the cove and can be bent to suit variation.



No. 7

No. 7 is made to drive from three to four inches square in the cornice. The lower prong forms a brace for the upper, and makes it very strong and firm.



No. 8

No. 8 is made to drive from three to six inches square in the cornice.

This iron is intended for eaves where the shingles project far over the cornice.



No. 9

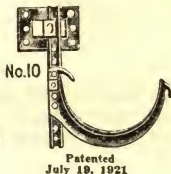
No. 9 is to drive with the pitch of the roof. Same length as No. 7.

Suited for narrow molded cornice.

LOOK ON EACH PIECE AND SEE OUR COPYRIGHTED TRADE MARK B. B.
FOR PRICES SEE PAGES 77 to 79
SAMPLES SENT FREE UPON REQUEST

B. B. Favorite Gutter Hangers

WROUGHT IRON



No. 10 is made to nail against square box cornices.

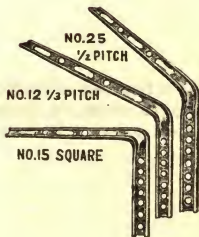


No. 11 is for nailing to the side of exposed rafters. Furnished in 4, 5 and 7 inch drop lengths. We assort them about 40 short (4-inch) 40 medium (5-inch) and 20 long (7-inch) to the 100 pieces.

When ordered, otherwise than the regular assortment, an extra will be charged. See list page 77.

See No. 2 on page 71 for same pattern hinged.

Nos. 12, 15 and 25



These are made to fasten under the shingles or slate. They are made of one solid piece of wrought material and can be bent to any pitch of roof without the slightest danger of either weakening or breaking.

When ordering specify as follows:
No. 12, for either $\frac{1}{4}$ or $\frac{1}{3}$ pitch roofs.
No. 25, for $\frac{1}{2}$ pitch or steep roofs.
No. 15, for flat roofs.

These are all made in 4, 5 and 7 inch lengths, assorted the same as No. 11. When greater-fall is required than these lengths will permit, use extension shanks shown on page 75.

FOR PRICES SEE PAGES 77 to 79

SAMPLES SENT FREE UPON REQUEST

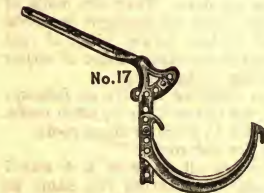
B. B. Favorite Gutter Hangers



No. 13 drives with the pitch of the roof. Same length as No. 8, shown on page 72.

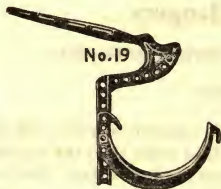


No. 16 is fastened under the shingle. For extra steep roof use No. 1 stem.



No. 17 is fastened under the shingles; the hinge and circle both adjust to every $\frac{1}{8}$ inch.

B. B. Favorite Gutter Hangers



No. 19 is used either on top or under the shingles and suited for short projections of the shingles over the mouldings.



No. 20 is hinged for any pitch, can be nailed or screwed to various shaped mouldings at any angle desired.



Extension Shanks

This Shank is 6 inches long and the use of same allows for 5 inches extension.

Our line of B. B. Favorite Gutter Hangers shown in this catalog is absolutely the best to be found anywhere. From the different numbers shown a style can be selected to suit most any requirement.

It is possible in the hinged type, by using different stems, to make styles other than those shown, as the plates and stems are interchangeable.

We solicit correspondence along these lines when you are in doubt as to what style to use.

FOR PRICES SEE PAGES 77 to 79

SAMPLES SENT FREE UPON REQUEST

B. B. Gutter Hangers

ALL SHANKS AND CIRCLES INTERCHANGEABLE

Length of Shanks

Orders for shanks are filled with assorted lengths, and all orders, the lengths of which are specified other than the regular assortment usually furnished, will command an extra. See list for **All Long Shanks**.

Some numbers (not listed **All Long**) are not made to furnish in long lengths, and when circumstances require them longer than those regularly furnished, lengthen them by using **Extension Shanks**. See illustration and list price.



Gem Circle

For Single Bead Gutters

Sizes $3\frac{1}{2}$, $3\frac{3}{4}$, 4, $4\frac{1}{2}$, 5, 6, 7, 8 inch



Penn Circle

For Double Bead Gutters

Sizes $3\frac{1}{2}$, 4, $4\frac{1}{2}$, 5, 6, 7, 8 inch

Circle Straps

Packages of 100 each
Galvanized, Brass or Copper

Look on every hanger for our copyrighted trade mark, **B. B.**

Revised Price Lists—June 1, 1919

B. B. GUTTER HANGERS

Look for our copyrighted trade mark B. B. on each piece

SHANKS—PER 100

	Complete Plain Black	Complete Tinned	Plate only Black	Stem only Black	Plate only Tinned	Stem only Tinned
No. 1	\$13.00	\$16.25	\$7.50	\$5.50	\$9.40	\$6.90
No. 2	10.40	13.00	4.90	5.50	6.15	6.90
No. 3	11.50	14.40	6.00	5.50	7.50	6.90
No. 4	12.00	15.00	6.50	5.50	8.15	6.85
No. 5	10.00	12.50	4.50	5.50	5.65	6.90
No. 6 Assorted lengths	9.50	11.90	....	....	....	....
No. 6 All long	11.00	13.75	....	....	....	....
No. 7 Assorted lengths	5.40	6.75	....	....	....	....
No. 7 All long	7.40	9.25	....	....	....	....
No. 8 Assorted lengths	7.70	9.65	....	....	....	....
No. 8 All long	8.90	11.10	....	....	....	....
No. 9 Assorted lengths	5.50	6.90	....	....	....	....
No. 9 All long	8.00	10.00	....	....	....	....
No. 10 Assorted lengths	7.50	9.40	....	....	....	....
No. 10 All long	9.50	11.90	....	....	....	....
No. 11 Assorted lengths	7.30	9.10	....	....	....	....
No. 11 All long	9.00	11.25	....	....	....	....
No. 12 Assorted lengths	8.90	11.15	....	....	....	....
No. 12 All long	10.25	12.80	....	....	....	....
No. 13	8.10	10.15	....	....	....	....
No. 15 Assorted lengths	8.90	11.15	....	....	....	....
No. 15 All long	10.25	12.80	....	....	....	....
No. 16	12.90	16.15	7.40	5.50	9.25	6.90
No. 17	13.70	17.15	8.00	5.70	10.00	7.15
No. 19	15.50	19.40	8.00	7.50	10.00	9.40
No. 20	9.50	11.90	3.80	5.70	4.75	7.15
No. 25 Assorted lengths	8.90	11.15	....	....	....	....
No. 25 All long	10.25	12.80	....	....	....	....
Extension Shanks	5.70	7.15	....	....	....	....

Numbers not listed All Long are not made all long. When they are required longer than the regular style, use extension shanks. One bolt included with each hinged shank. Always state number of shank wanted. When tinned shanks are wanted do not fail to so specify. Black always sent when kind is not stated.

Discount.....Per Cent.

Revised Price Lists—June 1, 1919

B. B. GUTTER HANGERS

Look for our copyrighted trade mark B. B. on each piece

CIRCLES—PER 100

With Bolts and Straps

GEM CIRCLES

(SINGLE BEAD)

	Black	Tinned
3½ inch	\$5.55	\$6.95
3¾ inch	5.80	7.25
4 inch	5.85	7.30
4½ inch	6.95	8.70
5 inch	7.15	8.95
6 inch	9.45	11.80
7 inch	13.60	17.00
8 inch	15.50	19.40

PENN CIRCLES

(DOUBLE BEAD)

	Black	Tinned
3½ inch	\$6.25	\$7.30
4 inch	6.60	8.25
4½ inch	7.25	9.10
5 inch	7.90	9.90
6 inch	9.45	11.80
7 inch	14.00	17.50
8 inch	16.20	20.25

Discount.....Per Cent

Additional bolts and straps are charged extra. Always state kind and size of circles wanted, also if tinned or black. Black always sent when kind is not specified.

Stamped Copper Shanks and Circles

We have had quite a large demand for Copper Shanks and Circles for use with copper gutter and after considerable experimenting we are in position to furnish Shanks and Circles made of pure copper in sizes and styles listed below, designed along the same lines as our malleable iron Shank and Circle and interchangeable with them. They are neat in appearance and will fill a long-felt want for hangers made of this material.

GEM CIRCLES

(Single Bead Only)

With Brass Bolts and Straps

	List Per 100
4 inch	\$18.00
4½ inch	20.00
5 inch	21.00
6 inch	28.00

SHANKS

Nos. 6, 10, 11, 12, 25.....	\$16.00
-----------------------------	---------

OTHER SIZES AND STYLES AS DEVELOPED

Discount.....Per Cent.

PRICE LISTS

Berger's Gutter Hangers

MADE OF SPECIAL CAST BRONZE
FOR USE WITH COPPER GUTTER—EVERLASTING

NOTICE—Do not use the regular discount on these goods.
A special discount will be quoted on application.

SHANKS

	PER 100		PER 100
No. 1	\$33.00	No. 11	\$22.00
No. 2	27.00	No. 12	28.00
No. 3	32.00	No. 13	21.00
No. 5	25.00	No. 15	30.00
No. 6	25.00	No. 16	33.00
No. 7	16.00	No. 17	36.00
No. 8	22.00	No. 19	40.00
No. 9	16.00	No. 20	25.00
No. 10	22.00	No. 25	28.00

One Brass Bolt included with each Hinged Shank

CIRCLES

With Brass Bolts and Straps

GEM CIRCLES.

	PER 100
3½ inch	\$14.00
4 inch	18.00
4½ inch	20.00
5 inch	21.00
6 inch	28.00
7 inch	38.00
8 inch	44.00

PENN CIRCLES

	PER 100
3½ inch	\$17.00
4 inch	20.00
4½ inch	23.00
5 inch	24.00
6 inch	28.00
7 inch	38.00
8 inch	44.00

Additional Brass Bolts and Straps are charged extra

Discount.....Per Cent

ALWAYS STATE NUMBER OF SHANK WANTED. ALWAYS STATE KIND AND SIZE
OF CIRCLE WANTED

Keystone Wire Hangers

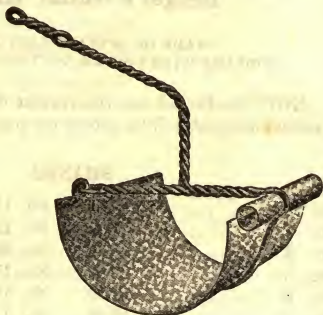
Triple Twist

Every Piece Absolutely Perfect

List	Per Gross
3 inch	\$2.75
3½ inch	2.75
4 inch	2.75
4½ inch	3.00
5 inch	3.00
6 inch	3.50
7 inch	4.00
8 inch	4.50

Double Bead
Hangers 25 cents
per gross to list.

For All Long, take
list of next larger
size.



Our Wire Hanger is made only of the very best galvanized steel wire. Compare the Keystone with other makes.

Discount.....Per Cent.

Clamp Hangers

A strong, convenient and simple Crossbar Hanger, made of the best malleable iron. Will adjust to any pitch of roof. As strong as one piece of iron when properly put up.

Send for sample

	Per 100, Tinned	
	Single Bead	Double Bead
4 inch	\$19.20	\$21.30
5 inch	19.80	23.00
6 inch	21.00	23.40
Shanks only	10.60	.....

Discount.....Per Cent.

Always state whether Single or
Double Bead Hangers are wanted.



Berger Imperial Hangers

WITH GALVANIZED CROSS BARS



PRICE LIST

Per Gross	With Rods	With Straps
3 inch	\$4.00	\$3.75
3½ inch	4.25	3.75
4 inch	4.50	4.00
4½ inch	4.60	4.10
5 inch	4.75	4.25
6 inch	5.25	
7 inch	6.25	
8 inch	8.25	

Double Bead Hangers
25 cents per gross to list.

N. B.—Sizes taken inside of bead. In ordering always state size of bead. Hangers are always sent with rods unless otherwise ordered.

Discount.....Per Cent.

Eave Trough Hanger Rods

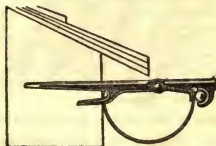


¼ inch diameter—7, 9, 10 and 11 inches long
List price per gross, \$2.25

Discount.....Per Cent.

Gutter Spikes

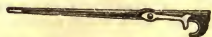
Where this can be used there is nothing handier or stronger—a first class ice breaker, and just the thing for "O. G." or square gutter.



	Per 100	Tinned
No. 1—4 inch	Black \$9.00	\$11.00
No. 1—5 inch	10.20	12.50
No. 1—6 inch	11.40	14.10

Discount.....Per Cent.

Repair Spikes



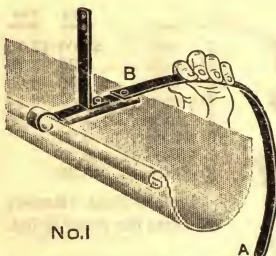
Inches	Per 100	
7	9	12
Black	\$7.90	\$10.00 \$11.40
Tinned	9.50	12.20 14.10

A handy article to straighten up twisted gutter.

Discount.....Per Cent.

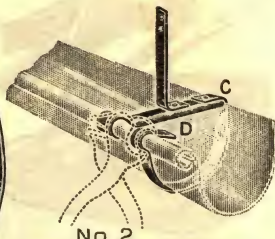
Superior Strap Hangers

GALVANIZED AND COPPER



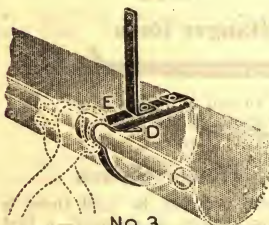
No. 1

Bend roof strap at right angle to cross bar, hook bead end over bead of gutter as in Cut No. 1.



No. 2

Bend strap "A" shown in Cut No. 1 around gutter, starting at point "C" shown in Cut No. 2.



No. 3

With tongs, bend strap around bead, exercising care to make strap conform closely under the bead, slip it over between bead of gutter and bead end of cross bar and press together with tongs as in Cut No. 3.

Illustrations Show How Easily Superior Strap Hangers Are Applied

The Superior Strap Hanger is without a doubt the finest Strap Hanger made. The cross bar is formed in a channel shape, giving great strength. The cross bar is made of No. 16 Galvanized Steel and the understrap of No. 22 Galvanized "Armco" Ingot Iron. This combination gives you a Hanger that will long outlast any galvanized gutter made. It is easily applied with ordinary tools. A worth-while saving in time can be effected by using our Hanger Tong illustrated below. It is an inexpensive tool and has many uses around the shop.

Made in sizes 4, 4½, 5 and 6 inch.

Same Hanger can be used on both single and double-bead gutter.

Prices Quoted Upon Application



Hanger Tongs

For Clenching Hangers
A handy, valuable tool
for many other purposes.

Price \$0.70

Discount Per Cent.

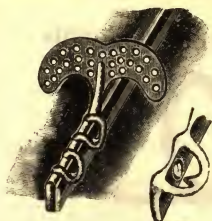
Standing-Seam Roof Snow Irons

Patented

Designed to dispense with snow rails or gutters formed on the roof to prevent snow sliding. They clamp fast to the roof by clinching the lugs through the standing seam.

Made of the best Malleable Iron.

Price Per 100 Galv.
No. 1, for standing seam.....\$19.50
Discount.....Per Cent.

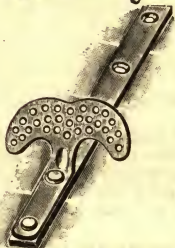


Slate Roof Snow Iron

The No. 2 is riveted on $\frac{1}{8}$ x 1 inch iron plates, 12 inches long, to go 8 inches under the slate.

It is very ornamental on a roof and must be seen to be fully appreciated.

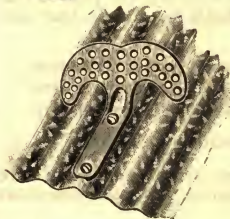
Price Per 100 Galv.
No. 2, for slate roof complete....\$30.60
Discount.....Per Cent.



Corrugated Roof Snow Irons

This cut shows our No. 20 Iron for corrugated roofing and fits either $1\frac{1}{4}$ inch or $2\frac{1}{2}$ inch corrugation. It is applied either by riveting to roof or by nailing through the roof to sheathing. It fits on top of the corrugation, as illustrated, and will not leak.

Price Per 100 Galv.
No. 20, for corrugated roofs....\$16.30
Discount.....Per Cent.



Giant Wrought Snow Guard

Patented September 16, 1924

HOT GALVANIZED

This Snow Guard is made of heavy band iron, formed and riveted in such a manner that the loop is braced against the guard itself, making it capable of holding a great amount of snow and ice without bending. The hot galvanized coating absolutely prevents rusting and discoloring of roof.

Exceptionally strong — Priced reasonably low.

Price per 100\$24.00
Discount.....Per Cent.



FOR SLATE ROOFS

"Loop the Loop" Wire Snow Guards



"LOOP THE LOOP" GUARD FOR NEW ROOFS

Directions for Laying Snow Guards for New Roofs

Lay out the eaves course close, as usual, but lay the next course with joints slightly open to receive the shank of guard. After lining for third course place the guards in the joints, with the loop just below lap of course, and drive the prong into the roof boards; then lay the course which will leave the loop exposed.

Take care to have the shank well sunk into the joint so that slate of following course will lay perfectly flat and not bear upon the guard.

One-quarter pitch roof.....use 50 guards per square

One-third pitch roof.....use 75 guards per square

One-half pitch roof.....use 150 guards per square

All towers should have a guard at every joint.

All guards made of either copper or galvanized iron wire. Prompt shipments in any quantity desired. Strongest wire guard on the market.

Per 1000

"Loop the Loop" Re-Galvanized Wire for new roofs.....\$60.00

"Loop the Loop" Copper Wire for new roofs.....100.00

WRITE FOR DISCOUNTS

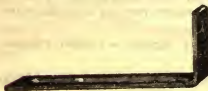
Wrought Slate Roof Irons

FOR WOOD SNOW RAIL

Made of $\frac{3}{16}$ x 1 inch iron

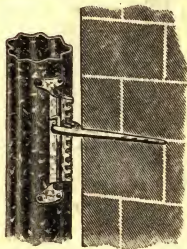
3 x 9 inches, per 100, net, \$.....

Any other style or sizes made to order.



Berger's "B. B." Pipe Fastener

This Fastener must be seen and used to be appreciated. It can be used on all kinds and sizes of pipes, and used either end up, right or left hand, or in any other position desired, and allows enough variation to let the pipe slip together until it is tight in the joints, as all pipe should be to prevent rattling. Needs no close measuring on the wall to find a joint for the drive, and combines a handy, perfect, solid, concealed fastening in every respect.



Owing to the Racks being long, with clips at each end to solder, the strain is lessened and they are not liable to become loose. The Drives are made, as illustrated, in various lengths and styles, and by keeping an assortment of these Fasteners the pipe can always be fastened to wood, brick or stone at any distance from the wall, hence the B. B. Fastener is just the article wanted for every requirement.

Price Per 100 Fasteners Complete

MALLEABLE TINNED

No. 0, for brick, 3 inch	\$10.70
No. 1, for brick or stone, 4½ inch	12.50
No. 2, for stone, 6 inch	15.00
No. 3, for stone, 9 inch	19.90
No. 4, for wood, 3 inch	9.60
No. 5, for wood, 5 inch	11.80
No. 6, to nail on wood	10.60
No. 7, to screw in wood	9.90

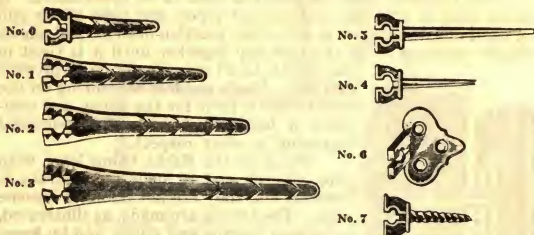
CAST BRONZE

No. 0, for brick, 3 inch	\$24.00
No. 1, for brick or stone, 4½ inch	28.00
No. 2, for stone, 6 inch	35.00
No. 3, for stone, 9 inch	47.00
No. 4, for wood, 3 inch	20.50
No. 5, for wood, 5 inch	26.00
No. 6, to nail on wood	24.00
No. 7, to screw in wood	21.50

Discount.....Per Cent.

Berger's "B. B." Pipe Fastener

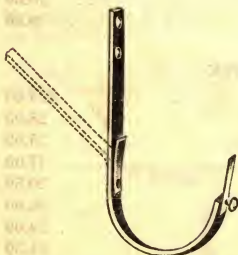
PRICE LIST ON DRIVES ONLY



	Drives Only per 100 Pieces	Malleable Tinned	Cast Bronze
No. 0, for brick, 3 inch	\$4.10	\$10.00	
No. 1, for brick or stone, 4½ inch	5.90	14.00	
No. 2, for stone, 6 inch	8.40	21.00	
No. 3, for stone, 9 inch	13.30	33.00	
No. 4, for wood, 3 inch	3.00	6.50	
No. 5, for wood, 5 inch	5.20	12.00	
No. 6, to nail on wood	4.00	10.00	
No. 7, to screw in wood	3.30	7.50	
Racks and keys only	6.60	12.00	
Keys only .....	.60	2.00	

Malleable, Discount Per Cent.

Cast Bronze, Discount Per Cent.

Wrought
Gutter Hangers

Iron, $\frac{3}{16}$ x $\frac{7}{8}$ and $\frac{1}{4}$ x 1 inch
 Length above gutter, 8, 10, 12,
 14 inches, in equal proportion.
 With lock strips riveted on both
 sides. All complete, except bend-
 ing to pitch. The Tinner to bend
 the Hangers to pitch and fall re-
 quired, as shown by dotted lines
 on illustration.

THESE HANGERS ARE MADE ONLY TO ORDER AND NOT RETURNABLE. ALWAYS
 STATE WHETHER WANTED FOR SINGLE OR DOUBLE BEAD GUTTER



No. 30 Pipe Cleats

Stamped From Heavy Galvanized Steel

Price per 100, net, Galv'd.

Especially suited for three and four

inch pipe \$2.00

This Cleat makes a handsome finish on porch columns; no tinner should be without them; they will answer for all kinds of pipe.



No. 50 Pipe Cleats

Stamped From Heavy Galvanized Steel

Price per 100, net, Galv'd.

7½ inches long \$2.70

This Cleat is fastened lengthwise for slipped joints and will answer for all sizes or kinds of pipe.

Put up 50 in a package.

Clasp Pipe Hooks



4 INCH



3 INCH



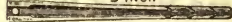
6 INCH



5 INCH



9 INCH



Price per 100, Tinned

Inches 3 4 5 6

Round Clasps,

only \$10.40 \$15.40 \$19.80 \$25.00

Corrugated

Clasps only .. 11.00 15.40 18.30 24.40

Square Clasps,

only 6.70 8.90 10.60 12.30

3 inch wood drive, only 2.50

5 inch wood drive, only 4.70

4 inch brick drive, only 4.60

6 inch brick drive, only 8.90

9 inch brick drive, only 13.50

Discount.....Per Cent.



The advantages are, that with a small assortment of Clasps and Drives, a variety of pipe can be fastened to wood, brick or stone, at any distance from the wall.

Round Corrugated Hinged Hooks

SHORT AND LONG WOOD DRIVES

Inches	PER 100		PER 100	
	Malleable Tinned		Cast Bronze	
	Short	Long	Short	Long
2	\$7.85	\$8.65	\$16.00	\$18.00
3	10.35	11.40	21.00	24.00
4	14.50	17.50	30.00	36.00
5		20.75	.....	42.00
6		28.50	.....	60.00

For Extra Long Drives, See Adjustable Clasp Hook



Round Corrugated Hinged Hooks

BRICK DRIVE—PER 100

Inches	Malleable		Cast
		Tinned	Bronze
2	\$9.50	\$18.00
3	12.30	27.00
4	17.50	36.00
5	21.80	48.00
6	29.40	60.00

In ordering these hooks always state clearly Corrugated Hinged, otherwise they may be confused with Corrugated Sickle Hooks and an error be made, or time lost in getting the desired information.



Plain Round Hinged Hooks

WOOD DRIVE—PER 100

Inches	Malleable Tinned	Cast Bronze
2	\$7.75	\$16.00
3	10.40	21.00
4	13.60	30.00

5" and 6" Use Clasp Pipe Hook, Page 87



Plain Round Hinged Hooks

BRICK DRIVE—PER 100

Inches	Malleable Tinned	Cast Bronze
2	\$9.20	\$18.00
3	11.80	27.00
4	13.80	36.00
5	22.80	48.00

Malleable, Discount Per Cent.
Cast Bronze, Discount Per Cent.



Plain Sickie Hooks



Wood Hook

Per 100		
Malleable Tinned		
Inches	Wood	Brick
2	\$3.50	\$4.60
3	6.00	6.75
4	7.20	9.70
5	12.30	13.20
6	16.40	18.50
Cast Bronze		
Inches	Wood	Brick
2	\$8.00	\$10.00
3	14.00	16.00
4	20.00	24.00
5	30.00	35.00
6	40.00	50.00



Brick Hook

Corrugated Sickie Conductor Hooks



Wood Hook

Per 100		
Malleable Tinned		
Inches	Wood	Brick
2	\$4.80	\$5.20
3	6.40	6.75
4	9.80	10.20
Cast Bronze		
Inches	Wood	Brick
2	\$10.00	\$10.00
3	15.00	16.00
4	24.00	24.00

In ordering Sickie Hooks always state whether Corrugated Sickie or Plain Sickie are wanted, otherwise an error may occur or the order be delayed in writing for the information.



Brick Hook

Flashing Hooks



Per 100					
Inches	1 1/2	2 1/2	3 1/2	5 1/2	7 1/2
Black	\$0.80	\$1.30	\$1.90	\$4.00	\$6.60
Tinned	.95	1.60	2.40	5.00	8.25
Cast Bronze	2.00	4.00	6.00	12.00	18.00

Malleable, Discount.....Per Cent.

Cast Bronze, DiscountPer Cent.

Wrought Iron Sickle Hooks



WOOD HOOK.

FOR WOOD OR BRICK

Price per 100, Galvanized

2 inch	.....	\$7.00
3 inch	.....	8.00
4 inch	.....	12.00
5 inch	.....	15.00
6 inch	.....	18.00
7 inch	.....	30.00
8 inch	.....	36.00



BRICK HOOK



Squared Wired Hooks

Per 100

Inches	Malleable Tinned		Cast Bronze	
	Wood	Brick	Wood	Brick
3	\$6.80	\$8.80	\$15.00	\$20.00
4	8.50	10.80	20.00	27.00
5	.....	12.20	27.00	30.00
6	.....	16.80	.....	.....



Round Wired Hooks

WOOD DRIVE—PER 100

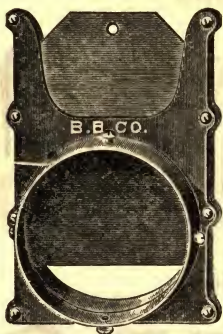
Inches	Malleable Tinned	Cast Bronze
3	\$5.30	\$15.00
4	8.10	20.00

Malleable, Discount.....Per Cent.
Cast Bronze, Discount.....Per Cent.

Cast Bronze Hooks and Hangers

There is an increasing demand for the various styles of Hangers, Hooks and Fasteners made of cast bronze. For permanent results nothing better can be used, and we are prepared to execute orders for cast bronze goods on short notice.

PRICES QUOTED UPON APPLICATION



Blast Gates

These Blast Gates are designed for closing pipes supplying blast to furnaces, forges, boilers, etc.; for use in exhaust or blast pipe systems, where material of any kind or gases of any nature are to be removed; or for controlling the heated air in connection with Fan Systems of heating. They are made in sizes from 2 inch to 30 inch.

Size	Price Each	Size	Price Each	Size	Price Each
2 inch	\$1.15	7 inch	\$3.10	15 inch	\$10.00
2½ inch	1.20	8 inch	3.50	16 inch	12.00
3 inch	1.25	9 inch	4.00	18 inch	15.00
4 inch	1.50	10 inch	4.50	20 inch	18.00
5 inch	2.00	12 inch	6.00	24 inch	20.00
6 inch	2.75	14 inch	8.00	30 inch	25.00

Discount..... Per Cent.



"B. B."—Perfect Pipe Straps

Inches..... ¼, ⅜, ½, ¾, 1, 1¼, 1½, 2, 2½ and 3 inch plain (not ribbed)
Wrought Tinned, per pound, \$....
In 5 pound boxes, extra.....

Neat, clean cut, round ends, uniform thickness.

Scientifically constructed. More pieces to the pound.

Gas-Pipe Hooks

BLACK



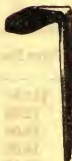
	Per 100	Wrought	Malleable
$\frac{1}{4}$ inch		\$0.34	\$0.90
$\frac{3}{8}$ inch .....		.42	.90
$\frac{1}{2}$ inch .....		.49	1.00
$\frac{3}{4}$ inch .....		.70	1.45
1 inch .....		.90	1.90
$1\frac{1}{4}$ inch		1.08	2.10
$1\frac{1}{2}$ inch		1.40	2.90



Wrought, Discount Per Cent.
Malleable, Discount Per Cent.

Plumbing Hooks

BLACK



	Per 100	Wrought	Malleable
$\frac{1}{2}$ inch		\$0.47	\$1.40
$\frac{3}{4}$ inch .....		.50	1.90
1 inch .....		.58	2.40
$1\frac{1}{4}$ inch .....		.65	3.30
$1\frac{1}{2}$ inch .....		.73	4.80



For Tinned, add 25 per cent. to list.

NOTICE—Malleable are shaped to fit the pipe

Wrought, Discount Per Cent.
Malleable, Discount Per Cent.

Soil Pipe Hooks

BLACK



	Per 100	Wrought	Mall.
2 inch		\$2.15	\$5.90
3 inch		3.60	8.80
4 inch		5.25	12.00
5 inch		8.00	.....
6 inch		9.25	16.90



NOTICE—Malleable have grooved drives to retain the mortar.

Wrought, Discount Per Cent.
Malleable, Discount Per Cent.

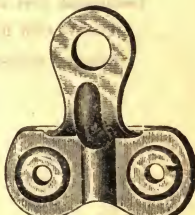
Wrought Star Ears



No. 20



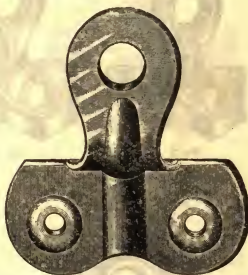
No. 30



No. 40



No. 50



No. 60



No. 70

Same size and thickness as malleable. All perfectly even. The finest Ear that can be made. Samples free.

Price per Gross Tinned

No. 20	\$1.40
No. 30	1.70
No. 40	2.40
No. 50	3.80
No. 60	4.60
No. 70	6.30

No. 30 corresponds in size to No. 3, and No. 40 to No. 4, in Malleable, etc.

Discount.....Per Cent.

WE CAN FURNISH THESE EARS STAMPED FROM SHEET BRASS

Malleable Star Ears

Countersunk rivet holes on under side

FOR FLUSH RIVET HEADS

Samples mailed upon request



No. 1



No. 2



No. 3



No. 4



No. 5



No. 6

Price in Gross Boxes

Nos.	1	2	3	4	5	6	7	8	9
Tinned..	\$1.40	\$1.80	\$2.20	\$2.80	\$4.00	\$5.00	\$7.50	\$11.00	\$15.00

Discount.....Per Cent.

Heavy Malleable Wash Kettle Ears



No. 1—Size $1\frac{1}{2}$ x $1\frac{7}{8}$ inch

No. 2—Size $1\frac{5}{8}$ x $2\frac{1}{8}$ inch

No. 3—Size 2 x $2\frac{1}{4}$ inch

No. 4—Size $2\frac{1}{2}$ x $2\frac{3}{4}$ inch

Tinned, per pound, \$.....

Heavy Malleable Star Ears

No. 1—Size $1\frac{1}{2}$ x 2 inch

No. 2—Size $1\frac{3}{4}$ x $2\frac{1}{4}$ inch

No. 3—Size 2 x $2\frac{1}{2}$ inch

No. 4—Size $2\frac{3}{8}$ x $2\frac{7}{8}$ inch

Tinned, per pound, \$.....



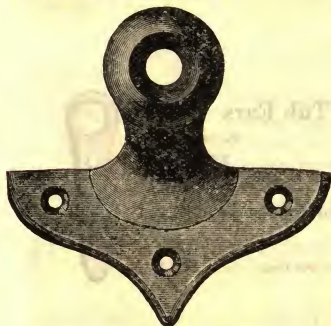
Malleable Boiler Ears

Very heavy and strong—weigh about $4\frac{1}{2}$ lbs. to the dozen pieces.

No. 12, $3\frac{3}{4}$ inches across

Tinned, per pound,

\$.....



Malleable Forked Ears

For heavy well buckets and similar articles.

	Per. Doz.	Gross
Black	\$0.60	\$6.40
Tinned .....	.90	9.50

Discount Per Cent.

Barrel lots quoted per pound upon application.



Butter-Kettle Ears

TINNED

No. 1	Per Gross
No. 2	\$1.60
	2.00

Discount.....Per Cent.

**Tea-Kettle Ears**

TINNED

No. 3	Per Gross
	\$2.80

Discount.....Per Cent.

**Malleable Iron Tub Ears**

Per Gross

Black	\$2.70
Tinned	4.00

Quantity orders quoted by the pound
upon application.

Discount.....Per Cent.

**Butter-Kettle Knobs**

TINNED

1½ inch	Per Doz.	Per Gross
	\$0.40	\$3.50

Discount.....Per Cent.



Lid Handles

TINNED



	Per Doz.	Gross
3 inch	\$0.50	\$5.40
3½ inch .....	.80	8.00
4 inch .....	.90	10.00

Fluted Lid Handles

TINNED



	Per Doz.	Gross
3½ inch	\$2.30	\$25.00

Flat Lid Handles

TINNED



	Per Doz.	Gross
3 inch	\$1.40	\$15.50
4 inch	3.00	33.00

Fancy Boiler Handles

Per Doz.

Gross

4 inch, Tinned	\$1.50	\$15.75
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This Handle is round underneath and does not cut the hand in carrying.

**Ash Can Handles**

Per Doz.

Gross

3½ inch, Tinned	\$1.90	\$20.00
4 inch, Tinned	2.40	26.00

**Dish Pan Handles**

Per Doz.

Gross

2 inch, Tinned	\$0.40	\$4.00
3 inch, Tinned50	5.20

**Heavy Dish Pan Handles**

Per Doz.

Gross

3½ inch, Tinned	\$1.20	\$13.00
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Discount.....Per Cent.

Lard Can Drop Handles

WITH CLIPS

	TINNED	Per Doz.	Gross
3 inch		\$1.00	\$11.00
3½ inch		1.20	13.00
4 inch		1.60	17.50
3 inch, Clip only .....		.45	5.00
3½ inch and 4 inch, Clip only ..		.50	5.20

**Guard Drop Handles**

WITH CLIPS

	TINNED	Per Doz.	Gross
3½ inch		\$2.90	\$31.00
4 inch		3.70	40.00
Clips only .....		.55	6.00

**Milk Can Drop Handles**

	TINNED	Per Doz.	Gross
3½ inch, with Clips		\$2.40	\$26.00
3½ inch, Handles only		1.80	19.80
Clips only (Round or Square Top) ....		.60	6.20

**Milk Can Handles**

WITH CLIPS

	TINNED	Per Doz.	Gross
3½ inch		\$2.70	\$29.00
4 inch		3.50	38.00
HANDLES ONLY			
3½ inch		\$1.90	\$20.50
4 inch		2.70	29.50
Clips only .....		.80	8.50

**Bread-Pan Handles**

	TINNED	Per Doz.	Gross
3 inch		\$0.60	\$5.70
3½ inch		1.00	10.40
Discount		Per Cent.	

**Coppered Grooved Boiler Handles**

Gray Iron, Coppered, 2½, 3,
3½, 4 inches

Price, per pound, \$.....

Malleable Iron-Grooved
Boiler Handles

	TINNED	Per Doz.	Gross
3 inch		\$1.00	\$11.30
3½ inch		1.40	15.20



SAME STYLE AS COPPERED GROOVED BOILER HANDLES

Discount.....Per Cent.

Oven Turnbuckles



Straight Tongue



Bent Tongue

In Gross Boxes

TINNED

Per Gross

1/4 inch Shank (Regular) with tongues.....	\$4.30
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3/8 inch Shank (Special) with tongues.....	4.60
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Tongues only	1.90
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Discount.....Per Cent.

Always specify the size Shank and whether straight or Bent Tongues are desired. Straight Tongues sent when style is not specified. Price furnished for these goods in bulk upon application.

Stove Buckles and Tongues

No. 8
Buckle1 Inch
Tongue3/4 Inch
Tongue

Price Per Pound, Black, \$.....

Enameled Tea-Pot Knobs

No. 53 Per Gross \$.....



Enameled Pail Woods

Per Gross
 3 inch \$.....
 3½ inch
 4 inch



Plain Pail Woods

3 inch, per box of 500 \$.....
 3½ inch, per box of 500
 4 inch, per box of 500

Serving Bucket Handles

Hardwood, Red Stain Polished,
 4½ inches in length.
 An extra fine handle.
 Price per dozen..... \$.....



Brass Milk Strainer Wire Cloth

IN ROLLS 12 INCHES WIDE, 5 FEET LONG

Mesh	List
40.....	\$0.28 per sq. ft.
50.....	.32 per sq. ft.
60.....	.36 per sq. ft.
70.....	.80 per sq. ft.
80.....	.94 per sq. ft.
90.....	1.20 per sq. ft.

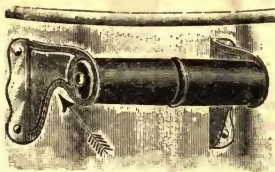
Discount..... Per Cent.



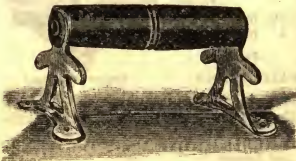
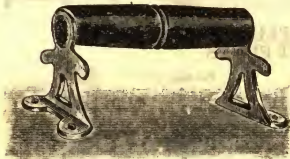
Keystone Boiler Handles



No. 10 Keystone Boiler Handle



No. 40 Keystone Boiler Handle



The clips of these handles are made from heavy sheet steel, brightly tinned, best quality and finest finish.

A heavy oval head rivet runs through the entire handle and is securely riveted on the outside with a bright, smooth spun head, making it impossible for the wood to pull out. They will outlast any boiler, no matter how good.

The Nos. 10, 20, 5 and 6 have handles $\frac{7}{8}$ inch diameter, and the Nos. 40, 50 and 60, $1\frac{1}{8}$ inch diameter.

SAMPLES FREE TO ALL TINWARE MANUFACTURERS

	Per Gross	Per Det.
No. 10, $3\frac{1}{4}$ inch, for oval boiler..	\$.....	\$.....
No. 20, $3\frac{1}{4}$ inch for square boiler
No. 40, 4 inch, for oval boiler
No. 5, $3\frac{1}{4}$ inch, for flat lids
No. 50, 4 inch, for flat lids
No. 6, $3\frac{1}{4}$ inch, for beveled lids
No. 60, 4 inch, for beveled lids

PRICES QUOTED UPON APPLICATION

Valves and Plungers

PUMP VALVES

	Per doz.
2½ inch	\$4.00
3 inch	4.50
3½ inch	5.50
4 inch	6.50

Discount.....Per Cent.



DOUBLE CLAPPER VALVES

	Per doz.
4½ inch	\$10.00
5 inch	12.00
5½ inch	14.00
6 inch	17.00

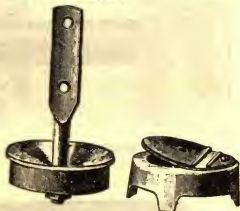
Discount.....Per Cent.



OIL VALVES AND PLUNGERS

	Per doz. pairs
1 inch	\$3.00
1½ inch	3.00
1½ inch	3.50
1¾ inch	4.00
2 inch	4.50

Discount.....Per Cent.



LEATHER PLUNGERS FOR BOAT PUMPS

Per doz.	Per doz.
2 inch .. \$2.60	4½ inch .. \$8.00
2½ inch .. 3.30	5 inch .. 10.00
3 inch .. 4.00	5½ inch .. 12.00
3½ inch .. 4.80	6 inch .. 14.00
4 inch .. 5.60	

Discount.....Per Cent.



Leather Plunger

IMPROVED PLUNGERS

Per doz.	Per doz.
2½ inch .. \$3.00	3½ inch .. \$5.00
3 inch .. 4.00	4 inch .. 5.50

Discount.....Per Cent.



Improved Plunger

ALL SIZES ALWAYS IN STOCK

In making these Valves and Plungers we use only the best castings, rubber and leather procurable and they are as near perfect as it is possible to make them.

Valves are furnished with leather clappers, sizes 1 inch to 2½ inches inclusive, rubber clappers 3 inches and larger.

Leather clappers can be furnished in the larger sizes. Made to order only, in stock quantities.

Galvanized Boat Pumps



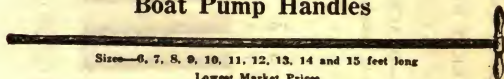
Sizes—6 feet and longer
Smaller sizes made to order only

List Effective March 1, 1920

Diameter Size	1½ and 2 inch	2½ and 3 inch	3½ and 4 inch	Diameter Size	1½ and 2 inch	2½ and 3 inch	3½ and 4 inch
2 foot ...	\$4.75	.....	.....	8 foot ...	\$7.50	\$11.00	\$12.00
3 foot ...	5.00	.....	.....	9 foot ...	8.00	11.50	13.00
4 foot ...	5.50	\$9.00	\$10.00	10 foot ...	9.00	12.00	14.00
5 foot ...	6.00	9.50	10.70	12 foot ...	10.00	14.00	15.00
6 foot ...	6.60	10.00	11.00	14 foot ...	.....	16.00	18.00
7 foot ...	7.00	10.60	11.50	16 foot ...	.....	18.00	20.00

Discount.....Per Cent.

Boat Pump Handles



Sizes—6, 7, 8, 9, 10, 11, 12, 13, 14 and 15 feet long
Lowest Market Prices

Bright, Annealed, Coppered and Galvanized Wire

SIZES, WEIGHTS AND LENGTHS OF STEEL WIRE

American Steel and Wire Company's Steel Wire Gauge No.	Sizes of Wire, Inches		Weight One Mile, Pounds	Pounds Per Foot	Feet to Pound
Common Fractions	Decimally				
3	¼	.250	880.2	.1667	.....
4		.2437	836.4	.1584	6.313
		.2253	714.8	.1354	7.386
5	⅜	.21875	673.9	.1276	.....
6		.2070	603.4	.1143	8.750
		.1920	519.2	.0983	10.17
7	½	.1875	495.1	.0937	.....
8		.1770	441.2	.0835	11.97
		.1620	369.6	.070	14.29
9	⅝	.15625	343.8	.0651	.....
		.1483	309.7	.0586	17.05
10		.1350	256.7	.0486	20.57
	⅞	.1250	220.0	.0416	.....
11		.1205	204.5	.0387	25.82
12		.1055	156.7	.0296	33.69
	1	.09375	123.8	.0234	.....
13		.0915	117.9	.0223	44.78
14		.0800	90.13	.0170	58.58
15		.0720	73.01	.0138	72.32
16	1½	.0625	55.0	.0104	95.98

GALVANIZED MARKET AND BRIGHT BASIC WIRE

In approximate 100-lb. coils, Nos. 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16.....per 100 lbs. \$

COPPERED MARKET WIRE

In approximate 100-lb. coils, Nos. 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16.....per 100 lbs. \$

ANNEALED STOVE PIPE WIRE—BLACK AND GALVANIZED

In Stones Weighing 12 Pounds Each

Nos. 16, 17, 18, 19.....per lb. \$

With Diameters in Decimal Parts of an Inch

No.	Diameter	Weight	Diagram
393	0.000		
362	0.000		
331	0.00		
306	0		
283	1		
263	2		
244	3		
223	4		
207	5		
192	6		
177	7		
162	8		
148	9		
133	10		
120	11		
105	12		
92	13		
80	14		
72	15		
63	16		
54	17		
47	18		
41	19		
35	20		

Regular sizes always in stock.

Lowest Market Prices.



Zinc Roses or Sprinkler Heads

WITH TIN BASE

		Per Doz.
No 000,	1 $\frac{1}{16}$ inch.....	\$.....
No. 00,	1 $\frac{3}{4}$ inch.....	.....
No. 0,	2 $\frac{5}{16}$ inch.....	.....
No. 1,	2 $\frac{15}{16}$ inch.....	.....
No. 2,	3 $\frac{5}{8}$ inch.....	.....
No. 3,	4 $\frac{1}{16}$ inch.....	.....



Can Screws

(UNLINED)

Per Gross	Zinc	Tin
1 $\frac{1}{2}$ inch	\$6.10	\$1.60
3 $\frac{1}{4}$ inch	7.60	1.80
1 inch	9.65	2.15
1 $\frac{1}{4}$ inch	12.15	2.65
1 $\frac{1}{2}$ inch	16.20	3.45
1 $\frac{3}{4}$ inch	20.20	4.70
2 inch	22.25	5.75

Discount Per Cent.

Brass Can Screws

(UNLINED)

Per Gross	Per Gross
1 $\frac{1}{2}$ inch \$10.10	1 $\frac{1}{2}$ inch \$23.70
3 $\frac{1}{4}$ inch 12.10	1 $\frac{3}{4}$ inch 34.20
1 inch 16.65	2 inch 38.25
1 $\frac{1}{4}$ inch 21.15	

Discount Per Cent.

Flat Zinc Can Screws



	Per Gross
2 "	\$.....
2 $\frac{1}{2}$ "
3 "
4 "
5 "
6 "

WRITE FOR PRICES



Galvanized Water Pails

	Per Doz.
8 quarts	\$
10 quarts
12 quarts
14 quarts
16 quarts

PRICES QUOTED UPON APPLICATION



Galvanized Ash Cans

Drop Handles Without Covers
Rolled Bottom Hoop

	Per Doz.
No. 2, size 14 x 15½ inches...	\$
No. 2½, size 14 x 18 inches...
No. 3, size 15 x 26 inches...
No. 4, size 17 x 26 inches...
No. 5, size 18 x 26 inches...
No. 6, size 20 x 26 inches...
No. 16, size 20 x 30 inches...

PRICES QUOTED UPON APPLICATION



Galvanized Ash Cans

Wood Staves Without Covers
Drop Handles Rolled Bottom Hoop

	Per Doz.
No. 6½, size 14 x 18 inches.....	\$
No. 7, size 15 x 26 inches.....
No. 8, size 17 x 26 inches.....
No. 9, size 18 x 26 inches.....
No. 10, size 20 x 26 inches.....

PRICES QUOTED UPON APPLICATION

COVERS FOR ABOVE CANS AT LOWEST PRICES

The Uncle Sam Damper



Smoke-Pipe Damper



Heater-Pipe Damper

The stem is malleable iron, pointed, and is easily driven through the pipe. The Damper Plate is made of cold-rolled pickled steel, corrugated to stiffen it and prevent warping.

THE DIFFERENCE IN WEIGHT PAYS THE FREIGHT

SMOKE-PIPE DAMPER

Inches	3	4	4½	5	5½	6	7
Per dozen	\$0.85	\$0.85	\$0.85	\$1.00	\$1.10	\$1.15	\$1.60
Approx. gross per bbl..	12	10	9	7	6½	6	5

HEATER-PIPE DAMPER

Inches	8	8½	9	10	10½	11	12	12½	14
Per dozen	\$2.20	\$2.45	\$2.60	\$2.80	\$3.05	\$3.30	\$3.50	\$3.75	\$5.00
Ap. gross per bbl.	4	4	3½	3	2½	2½	2	2	2

Discount.....Per Cent.

American Damper

Per Doz.

3	inch	.....	\$2.60
4	inch	.....	2.80
4½	inch	.....	3.00
5	inch	.....	3.00
5½	inch	.....	3.30
6	inch	.....	3.50
7	inch	.....	5.00
8	inch	.....	8.00
9	inch	.....	12.00
10	inch	.....	15.00
12	inch	.....	18.00

Discount.....Per Cent.

Dampers from 4 inch to 8 inch, inclusive, are made with reversible plates. The patented reversible feature provides for the Spindle being put in the plate from either side.



Plain Cast Dampers

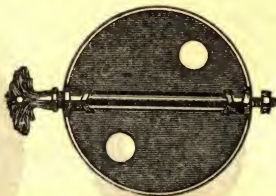
WITH MALLEABLE ROD

Sizes		
4 inch	4½ inch	5 inch
5½ inch	6 inch	7 inch

Price per pound, \$_____

These Dampers are gauged to a true size to fit the pipe, and will not turn in the rods.

Hot Air sizes—7, 8, 8½, 9, 10 and 12 inches.



Oval Dampers

	Per Doz.
6 inch	\$4.00
7 inch	6.00
8 inch	9.00

Discount.....Per Cent.



Oblong Square-Corner Hot-Air Dampers

FOR TIN FLUES

2¼ x 8 inch. \$0.65	4x 8 inch. \$0.80
2¼ x 9 inch. .70	4x 9 inch. .85
3 x 8 inch. .70	4x10 inch. .85
3½ x 8 inch. .75	4x12 inch. .90
3½ x10 inch. .80	

Discount.....Per Cent.



Square Dampers

FOR BRICK FLUES

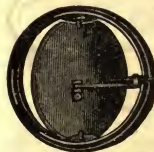
4x 6 inch, 2 slats, each.....	\$0.70
4x 9 inch, 2 slats, each.....	.80
6x 6 inch, 3 slats, each.....	.80
6x 9 inch, 3 slats, each.....	.85
6x12 inch, 3 slats, each.....	.95
8x 8 inch, 3 slats, each.....	.90
9x 9 inch, 3 slats, each.....	1.00

Discount.....Per Cent.



Round Dampers

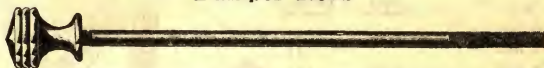
FOR TIN FLUES



6	inch	.....	\$0.50
7	inch	.....	.60
8	inch	.....	.70
8½	inch	.....	.75
9	inch	.....	.80

Discount..... Per Cent.

Damper Rods



Up to 6 inch, per dozen, net.....	\$.....
7 to 12 inch, per dozen, net.....	.....
Small Knobs, per dozen, net.....	.....

Steel Damper Clip

RIVET OR NO
RIVET

This Steel Damper Clip has many special features other clips do not have.

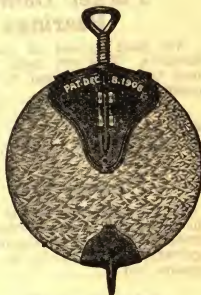
It has a Steel Stem and perfect lock in blade.

The Steel Stem will not break like cast iron stems.

The No Rivet Damper Clip can be put on to sheet metal blade very quickly, thus saving time and labor.

Sold with or without tail pieces.

PRICES UPON REQUEST



Showing Clip on Blade

Improved Damper Clips

Price, per pound..... \$.....

Made with solid rivets and extra holes.

PRICES QUOTED UPON APPLICATION



Shallow Porcelain Cups

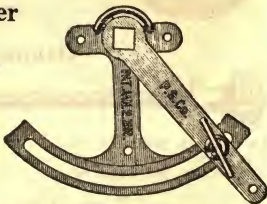
Per dozen, net..... \$.....



Parker "Unxld" Damper Quadrants

Size	Black Each Net	Galvanized Each Net
$\frac{3}{8}$ inch		\$0.39
$\frac{1}{2}$ inch .....		.44
$\frac{5}{8}$ inch	\$1.28	1.43
$\frac{3}{4}$ inch	2.50	2.78
$\frac{7}{8}$ inch	2.50	2.78

$\frac{3}{8}$ " $\frac{1}{2}$ " $\frac{5}{8}$ " $\frac{3}{4}$ " $\frac{7}{8}$ " HEAVY DUTY TYPE



Parker Damper Bearings

Are used instead of rods on small dampers. They are made of malleable iron, to fit $\frac{3}{8}$ inch and $\frac{1}{2}$ inch damper quadrants.

Size	Galvanized Per Set
$\frac{3}{8}$ inch	\$0.16
$\frac{1}{2}$ inch .....	.22



Parker Rod Clips

This clip enables you to fasten the rod firmly to the damper without drilling and weakening the rod. Furnished black and galvanized to fit $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ and $\frac{7}{8}$ inch square rod.



Parker Dial Regulators

STAMPED STEEL

Are simple, neat, clean-cut and efficient—nothing to get out of order. Made for $\frac{3}{8}$ and $\frac{1}{2}$ inch square rod.

Can be used with rod and rod clip or with damper bearings.



PRICES UPON APPLICATION

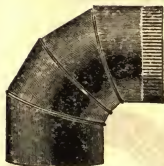
One Piece Stove Pipe Elbows

STRONGEST STOVE PIPE ELBOW MADE



No. 28 GAUGE	EVEN COLOR	CORRUGATED Per Dozen
4 inch		\$.....
4½ inch
5 inch
5½ inch
6 inch
7 inch

This is without doubt the very finest one-piece stove pipe elbow made. Made of No. 28 gauge, even color, with full 2½ inch ends.



Eagle Stove Pipe Elbows

MADE OF CLEANED IRON

	Per Dozen
4 inch	\$.....
4½ inch
5 inch
5½ inch
6 inch
7 inch

Five Piece Adjustable Black Elbows



MADE OF CLEANED IRON

	Per Dozen
3 inch
4 inch
4½ inch
5 inch
5½ inch
6 inch
7 inch

Common Black Stove Pipe



ALL SIZES KEPT IN STOCK

NESTED STOVE PIPE

This is the most convenient way to buy stove pipe.

Requires very little space to carry all the most called for sizes. Each piece formed and edged but not grooved. In cartons of 25 joints each.

WRITE FOR PRICES

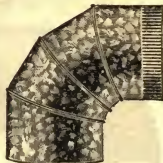
Galvanized Stiff Stove Pipe Elbows

No. 28 STEEL

	Per Dozen
4 inch	\$
4½ inch
5 inch
5½ inch

No. 26 STEEL

	Per Dozen
6 inch	\$
7 inch



Larger sizes furnished to order.

We also keep the regular sizes of **PLANISHED IRON EAGLE ELBOWS** in stock at the lowest market prices.

Stove Pipe Collars

Size	Outside Measure	Per Dozen
3 inch.....	5⅞ inch.....	\$
4 inch.....	6¾ inch.....	.....
4½ inch.....	7⅞ inch.....	.....
5 inch.....	8 inch.....	.....
5½ inch.....	8⅝ inch.....	.....
6 inch.....	9⅞ inch.....	.....
7 inch.....	10¼ inch.....	.....
8 inch.....	13⅜ inch.....	.....
9 inch.....	13⅝ inch.....	.....
10 inch.....	13⅝ inch.....	.....
Wide Flange....	10¼ inch.....	.....

Discount.....Per Cent.



Flue Stoppers

Put up in boxes of one dozen each.

Diameter, 8⅞ in., No. 3 \$.....

Discount.....Per Cent.





Large Head National
Standard Thread

Flat and Round Head
Stove Bolts

Per 100

List Adopted November 1, 1924



Length			Diameter			Length			Diameter		
	$\frac{1}{8}$	$\frac{1}{4}$		$\frac{1}{8}$	$\frac{1}{4}$		$\frac{1}{8}$	$\frac{1}{4}$		$\frac{1}{8}$	$\frac{1}{4}$
$\frac{3}{8}$ inch	\$0.60		\$0.60	.....	2 inch	....	\$0.91		\$0.91	\$1.20
$\frac{1}{2}$ inch60		.60	\$0.84	$2\frac{1}{4}$ inch	....	1.05		1.05	1.30
$\frac{5}{8}$ inch60		.60	.84	$2\frac{1}{2}$ inch	....	1.15		1.15	1.40
$\frac{3}{4}$ inch60		.60	.84	$2\frac{3}{4}$ inch	....	1.20		1.20	1.50
$\frac{7}{8}$ inch63		.63	.88	3 inch	....	1.25		1.25	1.60
1 inch63		.63	.91	$3\frac{1}{2}$ inch	....	1.40		1.40	1.70
$1\frac{1}{8}$ inch67		.67	.95	4 inch	....	1.55		1.55	1.90
$1\frac{1}{4}$ inch70		.70	.98	$4\frac{1}{2}$ inch	....	1.70		1.70	2.10
$1\frac{3}{8}$ inch74		.74	1.02	5 inch	....	1.85		1.85	2.30
$1\frac{1}{2}$ inch77		.77	1.05	$5\frac{1}{2}$ inch	....	2.00		2.00	2.55
$1\frac{3}{4}$ inch84		.84	1.15	6 inch	....	2.15		2.15	2.75

Discount.....Per Cent.

FOR SINK BOLTS SEE NEXT PAGE

Flat-Head Iron Rivets

BEST NORWAY IRON



Per 1000

Size, oz.	8	10	12	14	1 lb.	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$
Black	\$0.32	\$0.36	\$0.41	\$0.45	\$0.48	\$0.54	\$0.62	\$0.67	\$0.72	\$0.83
Size, lb.	3	$3\frac{1}{2}$	4	5	6	7	8	9	10	12
Black	\$0.96	\$1.09	\$1.20	\$1.30	\$1.50	\$1.75	\$2.00	\$2.20	\$2.40	\$2.64

Discount.....Per Cent.

Tinning.....cts. per Lb. net Extra.



Swedes' Iron Burrs

List of May 19, 1920

Per Pound

Size	$\frac{1}{8}$ "	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	No. 1	No. 2 or $\frac{3}{4}$ "	No. 3	$\frac{1}{2}$ "	No. 4	No. 5 or $\frac{3}{4}$ "
Price	.40	.40	.40	.40	.40	.40	.40	.40	.40	.41	.42
Size	No. 6	$\frac{1}{2}$ "	No. 7	No. 8 or $\frac{3}{4}$ "	No. 9	No. 10	No. 11	No. 12	No. 13 or $\frac{3}{4}$ "	No. 14	
Price	.46	.46	.47	.48	.49	.51	.54	.64	.74	.84	

Tinning.....cts. per Lb. net Extra

Discount.....Per Cent.

Sink Bolts

List Adopted November 1, 1923

		Per 100			Per 100
1	x ¼	\$2.10	2½	x ¼	\$2.70
1¼	x ¼	2.20	2¾	x ¼	2.80
1½	x ¼	2.30	3	x ¼	2.90
1¾	x ¼	2.40	3½	x ¼	3.10
2	x ¼	2.50	4	x ¼	3.30
2¼	x ¼	2.60			

Discount.....Per Cent.

Parker Steel Sheet-Metal Screws

This screw is designed especially for sheet metal work. The thread extends over the entire length of the screw, admitting of the metal being drawn up flush with the head. Will not work loose as the screw is tapered only at the point and continues straight from the point upward.

Size	Per Gross	Size	Per Gross
½ x ⅝ inch	\$.....	¾ x 1¼ inch	\$.....
⅝ x ¾ inch	¾ x ¾ inch .....	.....
¾ x ¾ inch	¾ x 1½ inch .....	.....

PRICES UPON APPLICATION

Morning-Glory
Coal Hods

NEW STYLE

	Per Dozen
15 inches, galvanized	\$.....
16 inches, galvanized
17 inches, galvanized
18 inches, galvanized
15 inches, japanned
16 inches, japanned
17 inches, japanned
18 inches, japanned



Patent Pressed Corrugated Bottom

SQUARE MOUTH

	Per Dozen
14 inches, galvanized	\$.....
15 inches, galvanized
16 inches, galvanized
17 inches, galvanized
18 inches, galvanized
19 inches, galvanized
14 inches, japanned
15 inches, japanned
16 inches, japanned
17 inches, japanned
18 inches, japanned
19 inches, japanned



WRITE FOR PRICES

Warm-Air Pipe, Stacks and Boxes

Price Per Foot

ROUND HEATER PIPE

	I. C.	I. X.	Galv.
6 inch	\$0.17	\$0.18	\$0.24
7 inch .....	.19	.21	.28
8 inch .....	.21	.23	.32
8½ inch .....	.22	.24	.34
9 inch .....	.23	.26	.36
10 inch .....	.26	.28	.44
12 inch .....		.34	.60
14 inch .....		.40	
16 inch .....		.54	
18 inch .....		.72	

SQUARE HEATER PIPE

	I. C.	I. X.
2¾ x 9 inch	\$0.21	\$0.24
3½ x 8 inch .....	.21	.24
3½ x 10 inch .....	.22	.26
4 x 10 inch .....	.24	.28
4 x 11½ inch .....	.26	.30
5 x 10 inch .....		.30
6 x 12 inch .....		.38
8 x 10 inch .....		.38
8 x 12 inch .....		.42
8 x 20 inch .....		.58
10 x 20 inch .....		.77

Discount.....Per Cent.

CRATING ALWAYS CHARGED EXTRA AT COST

Air-Cell Sectional Pipe Covering

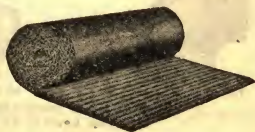
This is composed of pure asbestos paper, the corrugations are uniform, ample and very firm, the various plies are thoroughly cemented together with fireproof adhesives only, provided with exterior canvas covering of good quality, and brass lacquered metal fastening bands.



Asbestos Air-Cell Paper

Manufactured of strictly fireproof asbestos felts with ¼ inch corrugations. Put up in rolls 3 feet wide, containing 250 square feet. Used extensively for covering furnace pipes.

WRITE FOR PRICES



PRICE LIST OF Stack Boots



No. 1—Center Round Boot

Style No. Center Round Boot

To fit Stacks as follows:

	I. C.	I. X.
From 2½ x 9 to 4x11½ ..	\$0.68	\$0.74
From 5 x 10 to 8x10 ..		1.20
From 8 x 12 to 10x12 ..		1.70



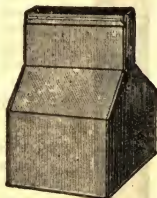
No. 2—Flat Back Boot



Styles No. 2, No. 3, No. 4
and No. 5

To fit Stacks as follows:

	I. C.	I. X.
From 2½ x 9 to 4 x 11½ ..	\$1.30	\$1.50
From 5 x 10 to 8 x 10		1.70
From 8 x 12 to 10 x 20		2.20



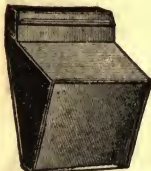
No. 4—Center Boot

Style No. 6. Offset Boot
to offset 4 to 6 inches

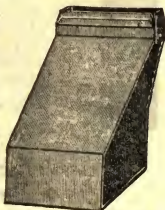
To fit Stacks as follows:

	I. C.	I. X.
From 2½ x 9 to 4 x 11½ ..	\$1.50	\$2.00
From 5 x 10 to 8 x 10		2.00
From 8 x 12 to 10 x 20 ...		2.80

Note—In ordering Boots please order by number and state what size stacks they are to fit; also size of collar required. We can furnish Offset Boots to offset 8 and 12 in. when required.



No. 5—Channel Boot



No. 6—Offset Boot

Discount.....Per Cent.

Elbows, Angles, Casing Collars, etc.



Three-Pieced Elbow



43 Degree Angle

Casing Collar for
Side of Bonnet

FOR PRICE LIST SEE PAGE 120
CRATING ALWAYS CHARGED EXTRA AT COST

Register Boxes



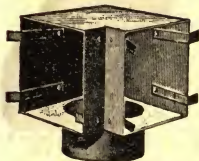
No. 1—Hall Register Box



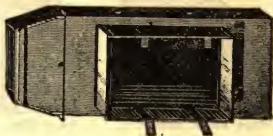
No. 2—Parlor Register Box with Round Collar



No. 3—Top Box



No. 4—Double Register Box



No. 5 Box

	I. C.	I. X.
Style No. 1—8 x 12 to 10 x 14 Register		
2 $\frac{3}{4}$ x 9 to 4 x 11 $\frac{1}{2}$ Pipe	\$0.90	\$1.00
Style No. 2—8 x 12 to 10 x 14 Register		
2 $\frac{3}{4}$ x 9 to 4 x 11 $\frac{1}{2}$ Pipe	1.00	1.10
Style No. 3—6 x 8 to 10 x 14 Register		
2 $\frac{3}{4}$ x 9 to 4 x 11 $\frac{1}{2}$ Pipe .....	.70	.80

No. 3 Double Top Box add one-half to above list.

Style No. 4—6 x 8 to 10 x 14 Register		
2 $\frac{3}{4}$ x 9 to 4 x 11 $\frac{1}{2}$ Pipe	1.20	1.30
Style No. 5—6 x 8 to 10 x 14 Register		
2 $\frac{3}{4}$ x 9 to 4 x 11 $\frac{1}{2}$ Pipe	1.20	1.30
Round Floor, Register Boxes 6 to 8 in. ....	.80	.90
Round Floor, Register Boxes 9 to 10 in. ....	.90	1.00
Round Floor, Register Boxes 12 to 14 in.	1.10	1.20
Round Floor, Register Boxes 16 to 20 in.	1.55	1.70
Square Floor, Register Boxes 6 x 8 to 10 x 14. ....	.80	.90

Discount.....Per Cent.

Note—Please order by number and state what size Registers are to be used, also what size pipe.

Register Boxes for larger sized Registers and Pipe. Prices on application.

CRATING ALWAYS CHARGED EXTRA AT COST

Stack Elbows and Offsets



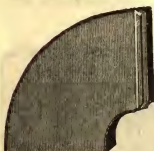
Stack Elbow, Style A



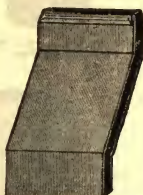
Square Stack Elbow, Style B



Stack Elbow, Style C



Stack Elbow, Style D



Stack Offset, Style E

Stack Offset, Style F
to Offset 4 in.

STACK ELBOWS AND OFFSETS

Stack Elbows and Offsets, as shown, any style to fit Stacks, as follows:

	I. C.	I. X.
From $2\frac{3}{4}$ x 9 to 4 x $11\frac{1}{2}$	\$0.90	\$1.00
From 5 x 10 to 8 x 10		1.40
From 8 x 12 to 10 x 20		2.80

Discount.....Per Cent.

Note—In ordering Stack Elbows and Offsets, please order by letter, and state what size stacks they are to fit.

Offsets listed above are made to offset 4 inches. Can furnish to offset any size required.

Price on application.

Tee Joint with Stopper



FOR PRICE LIST SEE PAGE 120

Adjustable Elbows

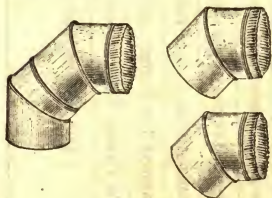


List Price Per Dozen

Size	I. C. Tin	No. 28 Galvd. Steel	No. 28 Galvd. Ingot	No. 26 Galvd. Steel	No. 26 Galvd. Ingot	No. 24 Galvd. Steel	No. 24 Galvd. Ingot
1½ inch	\$	\$	\$	\$	\$	\$	\$
2 inch							
2½ inch							
3 inch							
3½ inch							
4 inch							
4½ inch							
5 inch							
5½ inch							
6 inch							
I. X. Tin							
7 inch	\$	\$	\$	\$	\$	\$	\$
8 inch							
8½ inch							
9 inch							
10 inch							
11 inch							
12 inch							
13 inch							
14 inch							
16 inch							
18 inch							

PRICES QUOTED UPON APPLICATION

These elbows can be adjusted to any angle between a straight line and a right angle.



Twin Hot-Air Elbows

The advantages in using the Twin Elbow are many. It can be adjusted to any angle required and, disconnected, can be used as two separate elbows.

Best, Handiest and Cheapest
Ask for Twin Elbows

FOR PRICE LIST SEE PAGE 120

PRICE LIST
OF
Elbows, Angles, Casing Collars, etc.

Sizes.....Inch	5	6	7	8	8½	9	10	12	14	16
I. C. Twin Elbows...per doz.		\$4.20	\$4.50	\$5.00	\$5.50	\$6.20	\$7.70	\$11.50		
I. X. Twin Elbows...per doz.		4.50	5.00	5.50	6.00	6.80	8.50	12.20	\$15.00	\$28.00
Galv'd Twin Elbows..per doz.		5.00	6.00	7.00	7.50	8.00	9.00	12.50	16.50	30.00
Three-piece Elbows...per doz.	Same price as Twin Elbows									
43 Degree Angles...per doz.	One-half price of Twin Elbows									
Galvanized Pipe....per foot	\$0.20	\$0.24	\$0.28	\$0.32	\$0.34	\$0.36	\$0.44	\$0.60		
Galvanized Tee Joints...each	1.00	1.10	1.20	1.30	1.40	1.50	2.00	2.50		
Galv'd Casing Collars...each		.23	.25	.28	.32	.35	.40	.50		

CRATING ON HOT AIR PIPE, ELBOWS AND FITTINGS ALWAYS CHARGED AT EXTRA COST

Discount.....Per Cent.

Keystone Stove Boards



PAPER-LINED CRYSTAL

Each Size Different Design

Round, No. 100

Size.....	24	26	28	30	32	34	36
Price, per doz.							
Weight, doz...	22 lbs.	26 lbs.	32 lbs.	39 lbs.	44 lbs.	51 lbs.	56 lbs.

Square, No. 200

Size.....	24x24	26x26	28x28	30x30	32x32	34x34	36x36
Price, per doz.							
Weight, doz...	28 lbs.	35 lbs.	41 lbs.	46 lbs.	53 lbs.	60 lbs.	66 lbs.

Oblong, No. 300

Size.....	24x36	26x30	28x32	30x36	32x42
Price, per doz.					
Weight, doz...	42 lbs.	41 lbs.	42 lbs.	55 lbs.	70 lbs.

One Dozen in a Crate

Paper-lined Boards are marked according to the sizes of the blank plates from which they are made.

This style also furnished wood lined.

Crating charged extra for broken crates.

Keystone Stove Boards

PAPER-LINED EMBOSSED

Round, No. 45

Size.....	24	26	28	30	32	34	36
Price, per doz.	.....	.....	.....	.....	.....	.....	.....
Weight, doz...	22 lbs.	26 lbs.	32 lbs.	39 lbs.	44 lbs.	51 lbs.	56 lbs.

Square, No. 55

Size	24x24	26x26	28x28	30x30	32x32	34x34	36x36
Price, per doz.	.....	.....	.....	.....	.....	.....	.....
Weight, doz...	28 lbs.	35 lbs.	41 lbs.	46 lbs.	53 lbs.	60 lbs.	66 lbs.

Oblong, No. 65

Size	24x36	26x30	28x32	30x36	32x42
Price, per doz.	.....	.....	.....	.....	.....
Weight, doz...	42 lbs.	41 lbs.	42 lbs.	55 lbs.	70 lbs.

ONE DOZEN IN A CRATE

Paper-lined Boards are marked according to the sizes of blank plates from which they are made.

This design also furnished wood lined.

WOOD-LINED FLORAL INLAID PEARL

Each Size Different Design

Square, No. 44

Size	24x24	26x26	28x28	30x30	33x33	36x36
Price, per doz.	.....	.....	.....	.....	.....	.....
Weight, doz...	86 lbs.	98 lbs.	112 lbs.	130 lbs.	154 lbs.	186 lbs.

Oblong, No. 88

Size	18x24	18x30	24x36	28x34	30x38	32x42
Price, per doz.	.....	.....	.....	.....	.....	.....
Weight, doz...	61 lbs.	76 lbs.	116 lbs.	138 lbs.	156 lbs.	194 lbs.

Half Dozen in a Crate

A new feature in our Wood-lined Boards is the special manner in which the edges are fastened on the under side, which prevents all possibility of sides bulging.

This style also furnished paper-lined.

Crating charged extra for broken crates.

McGuire's Star Adjustable Stove Pipe Thimbles

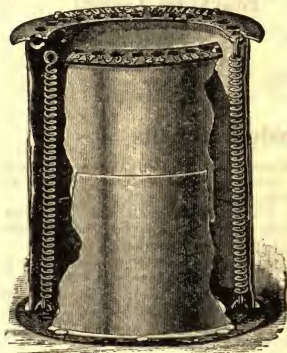
CAST HEADS

The Original Spring-Adjustment Thimbles

THIMBLES

The cast heads are well japanned. The cylinders are made of bright tin and are securely attached to the heads.

The heads are connected by spiral steel springs whose tension adjusts them to any thickness of floor or partition.



SPRING ADJUSTMENT

Register and Ceiling Plates

By the use of these plates with adjustable Thimbles, the openings in the floor may be closed upon the removal of the stove pipe, or in connection with the same thimbles a perfect ventilator can be made. These plates can readily be inserted or removed as may be desired. The Register Plates are provided with dampers which can be opened or closed.

CEILING PLATE—Black Japanned



REGISTER PLATE—Black Japanned



LIST PER DOZEN

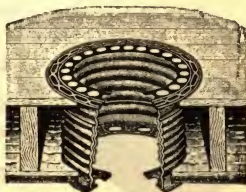
Inches	5	6	7	8
6 to 12 inch extension (for floors).....	\$11.00	\$12.00	\$14.00	\$17.00
4 to 8 inch extension (for walls).....	10.00	11.00	13.00	16.00
Ceiling Plates	3.50	4.10	4.85	
Register Plates		13.50	14.25	

Discount.....Per Cent.

O. K. Stove Pipe Thimble

Easily adjusted from 7½ to 12 inches. Made in two parts which screw together and adjust to any thickness of floor or partition. Made of bright tin with ends handsomely japanned.

Packed in crates, ½ dozen in crate.



LIST PER DOZEN

Inches	5	5½	6	7
6 to 12 inch extension (for floors).....	\$11.00	\$11.50	\$12.00	\$14.00
4 to 7½ inch extension (for walls).....	10.00	10.50	11.00	13.00



Blackene Stove Polish

(PASTE)

Blackest, quickest and most brilliant article. Guaranteed the best. Put up in one and five pound cans.

Per pound, in 1 pound cans..... \$
Per pound, in 5 pound cans..... \$

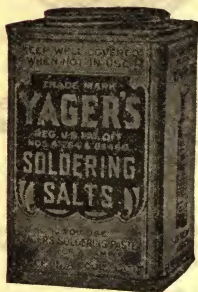
Blackene Liquid

(BENZINE)

Put up in $\frac{1}{2}$ pint cans

Per dozen cans..... \$

Yager's Soldering Salts



Warranted to excel all other preparations for soldering tin, copper, brass, iron and all metals.

It is a dry salt in small bulk. By adding a little water it is instantly ready for use.

It is free from disagreeable fumes.

It leaves the metal bright and clean. It causes the solder to flow more evenly.

It does not injure the irons like acid, and is unexcelled for tinning them.

An iron tinned with it will wear longer than when anything else is used.

It is superior to any other preparation for tinning metal. It can be used on damp surfaces.

Packed in screw top cans, excluding both light and air so that the salts retain their granular form.

$\frac{1}{2}$ lb. cans, \$ 1 lb. cans, \$
5 lb. cans, \$

Also furnished in 50 lb. tubs and 100 lb. kegs

Yager's Soldering Paste

A fine flux for fine work. Try it on your next job and be satisfied.

$\frac{1}{2}$ lb. cans, \$ 1 lb. cans, \$



Speco Solid Sal Ammoniac

$\frac{1}{2}$ lb. cakes, \$ 1 lb. cakes, \$

PRICES QUOTED UPON APPLICATION

Ruby Soldering Flux

A modern chemical discovery. A quick-acting, harmless flux for all metals. A substitute for acids, salts and pastes.

The only flux for soldering galvanized steel which does not tarnish or damage the coating.

Users are free from the effects of the fumes of acid, which destroy stock, tools, machinery and men.

It is unequalled for soldering tin, copper and brass. The only flux for all metals which does not cause the deterioration of the lead in solder, and work done with it is at once stronger, 500 per cent. better in appearance, and free from oxidation, "rust," "tarnish," or "corrosion."

It is used by the U. S. Navy, several ship building companies, and by many canners in the United States, Canada and other countries.

Pint cans, \$..... Quart cans, \$.....
Gallon cans, \$..... 5 gal. cans, \$.....



A-S-P Soldering Fluid

This fluid is a heavy, water-white fluid that contains no acid, gives off no fumes, does not rust or corrode, does not stain, and does not injure the hands.

Solders tin, brass, copper, zinc, galvanized iron—everything from cast iron to gold (aluminum excepted).

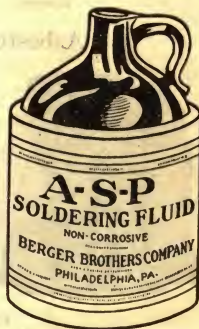
Takes solder as well after drying as when wet.

Goes further than acid or cut acid.

Solders more quickly and gives a cleaner, smoother joint.

Preserves the soldering irons and keeps them clean.

Quart bottles \$.....
Gallon jugs \$.....



Compressed Sal Ammoniac



Superior to the ordinary crystallized.

For tinning soldering coppers.

Per dozen \$.....

Each \$.....

WRITE FOR PRICES

New Rutland Asbestos Stove Lining



The best stove clay made for lining stoves, ranges, furnaces, also for making repairs to broken or cracked linings, and for like uses. Has given satisfaction to the trade for years.

No. 10 packages, each.....	\$0.70
No. 6 packages, each.....	.50
No. 3 packages, each.....	.30
Barrel lots from factory, 350 to 450 lbs., per lb. ....	.06

Discount.....Per Cent.

Asbestos Furnace Cement



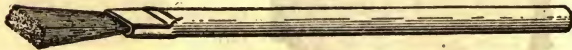
The strongest and most durable cement in use for "setting up" and repairing broken joints in furnaces, ranges, heaters, stoves, etc. It is prepared ready for use, adheres readily and firmly to castings, tin, etc., and "sets" in a few hours. When subjected to heat, it vitrifies without shrinking or becoming porous. It is invaluable for lining furnace doors of steam boilers.

Price List Per Pound

1 pound cans	\$0.18	25 pound cans	\$0.14
2 pound cans .....	.17	50 pound buckets .....	.13½
3 pound cans .....	.16	100 pound tubs or kegs ....	.11
5 pound cans .....	.14	Barrels, about 800 pounds..	.10
10 pound cans .....	.14		

Discount.....Per Cent.

Acid Swabs or Brushes



Per dozen	\$0.20 net
Per gross	1.50 net

Galvanized Poultry Netting

GALVANIZED AFTER WEAVING

List Adopted September 1, 1917

List Price of One Bale 150 Feet Long



Inches Wide		12 in.	18 in.	24 in.	30 in.	36 in.	42 in.	48 in.	60 in.	72 in.	
Mesh	Wire										
2 in.	No. 16	\$4.95	\$7.12	\$9.08	\$10.83	\$12.38	\$14.44	\$16.50	\$20.63	\$24.75	2 inch
2 in.	No. 18	.....	.....	5.78	.....	7.88	.....	10.50	13.13	15.75	No. 16
2 in.	No. 19	2.48	3.56	4.54	5.42	6.19	7.22	8.25	10.32	12.38	No. 18
2 in.	No. 20	2.14	3.08	3.92	4.68	5.35	6.24	7.13	8.91	10.69	No. 19
1 1/2 in.	No. 19	3.60	5.18	6.60	7.88	9.00	10.50	12.00	15.00	18.00	No. 20
1 1/2 in.	No. 20	3.15	4.53	5.78	6.90	7.88	9.19	10.50	13.13	15.75	1 1/2 in.
1 in.	No. 19	6.30	9.06	11.55	13.79	15.75	18.38	21.00	26.25	31.50	No. 19
1 in.	No. 20	4.95	7.12	9.08	10.83	12.38	14.44	16.50	20.63	24.75	No. 20
3/4 in.	No. 20	8.55	12.30	15.68	18.71	21.38	24.94	28.50	35.63	42.75	3/4 in.
Square Feet in One Bale.		150	225	300	375	450	525	600	750	900	Feet

In ordering state mesh, width and gauge of wire wanted

Discount.....Per Cent.

Asbestos Cold Water Paste

FOR APPLYING ASBESTOS PAPER, ETC.

Can instantly be prepared by adding cold water. Requires no boiling.

Price per pound.....\$.....

PRICE ACCORDING TO QUANTITY

Brass Lacquered
Tin Pipe BandsFOR FASTENING
PIPE COVERINGS

State length when ordering

Price per hundred.....\$.....

Rosin and
Charcoal

Price according to quantity



Price per bag, \$.....



B. B. Asbestos Fibre Roofing Cement

B. B. Asbestos Fibre Roofing Cement is a heavy, black composition made from a waterproof gum and asbestos fibres. It is thoroughly waterproof and pliable and will hold firmly to felt or metal roofings, cement, brickwork, wood and glass.

It is elastic and will not dry out or chip off, neither will it soften or run during warm weather. It will withstand the varying changes of temperature better than any other plastic material and may be applied under all weather conditions. Easily applied with knife or trowel.

Adheres readily to wet surfaces.

	Per Pound
1 pound can	\$ _____
5 pound can	\$ _____
10 pound can	\$ _____
25 pound can	\$ _____

	Per Pound
50 pound keg	\$ _____
100 pound keg	\$ _____
300-500 pound barrels....	\$ _____

WRITE FOR PRICES



Genasco Asphalt Putty (ROOFING CEMENT)

This is one of the highest grade cements made. Asphalt and asbestos fibre, black in color. Pliable, adhesive and weather-resisting. Ready for application with trowel or putty knife.

Drums, approx. 520 lbs.	\$ _____	per lb.
Half drums, approx. 320 lbs..	\$ _____	per lb.
50 pound pails	\$ _____	per lb.
25 pound pails	\$ _____	per lb.
10 pound pails	\$ _____	per lb.
5 pound pails	\$ _____	per lb.
1 pound pails	\$ _____	per lb.



Putty

This putty is made especially for use on metal work. It will not get either hard or soft in the cans and will keep longer than any other grade.

	Per Pound
In cans 12½, 25 and 50 pounds each	\$ _____

PRICES QUOTED UPON APPLICATION

"Berbrosco" Roof Paint

This is our popular priced ready mixed paint for general use on both wood and metal. Particularly suited for tanners and sheet metal workers as a high grade paint for roofs, etc. It is finely ground in linseed oil and thinned with reinforced linseed. Dries in five to six hours to a tough, elastic film. An excellent paint, which may be used without hesitation on the most important work.



VENETIAN RED METALLIC BROWN

Furnished in Barrels, Half Barrels, 1 and 5 Gallon Cans

Industrial Roof Paint

RED AND BROWN

This is a low priced quick drying oxide ready mixed paint for general roofing purposes. It is not as high quality as our "Berbrosco" Paint, but will give entire satisfaction where a low-priced paint is desired.

Barrels, Half Barrels, 1 and 5 Gallon Cans

Genasco Roof Coating

This is a heavy black liquid asphalt which dries to a tough elastic coating. It is shipped ready for use and can be applied with a brush. For use on all metal work.

Furnished in 50 Gallon Drums, 1 and 5 Gallon Cans

Genasco Asphalt Fibre Coating

Genasco Asphalt Fibre Coating is suitable for brush application. It is the same as Genasco Roof Coating with the addition of asphalt fibre and can be used to good advantage on old metal roofs that have developed pin holes.

50 Gallon Drums, 1 and 5 Gallon Cans

Sherwin-Williams Roof and Bridge Paint

This paint is well known to the trade and needs no description. An excellent medium priced paint.

Paint Ground in Oil-Paste Form

COLORS—Venetian Red and Metallic Brown

This paint only requires about half as much oil to mix it for use as dry paint requires.

Prices

Per Pound

In cans, 25 pounds	\$
In kegs, 100 pounds .....	.....
In barrels .....	.....



PRICES UPON REQUEST

Sipe's Combination Japan Oil

(REINFORCED LINSEED OIL AND JAPAN OIL)

This oil is a combination of linseed and other suitable waterproofing and drying oils, which is used straight as the complete vehicle for thinning out paste and semi-paste paints for exterior exposure on steel and wood. Dries paste paints in five to six hours.

Sipe's Japan Oil B

Sipe's Japan Oil B has been used for years by tinner and sheet metal workers as a drying and thinning medium for iron oxide pastes for painting metal roofs of all kinds and for producing dipping paints for spouting, gutters, etc. It is sometimes used straight to thin paste paints, but in most cases a percentage of linseed oil is added to it. Dries paste paints in four to five hours.

Sipe's Reducing Oil Q. D.

This is used for the same purposes as Sipe's Japan Oil B, but quicker in its drying effects as it dries semi-paste paints in one to two hours. This oil is recommended where quick-drying is more important than durability.

PRICES UPON APPLICATION

Preventing Rust

IMPORTANT TO SHEET IRON WORKERS AND STOVE DEALERS

A recipe for preparing a wash that will prevent any highly polished metal surfaces from rusting or tarnishing from the action of the dampness of the atmosphere upon them.

RECIPE—Take one (1) ounce of pure beeswax, and after chipping it up fine, place it in a quart bottle, and fill with Naphtha or Benzine. Cork tightly, and after allowing it to stand 24 hours or more, draw off the clear solution with care into another bottle, and it will then be ready for use. After your stove, or any article you wish to preserve from rusting or tarnishing is made up take a small, soft sponge and coat the article entirely over as lightly as possible with the solution, and then allow the article so coated to stand for 30 minutes or more, so as to give time for the benzine to evaporate, after which polish with soft paper, clean waste or chamois skin. When the article is intended to be stored or shipped any distance, do not polish until wanted for use, when again coat with the wash and polish as above directed. It will greatly lessen the danger from damage in transit on sheet iron stoves or any fine polished metal surfaces.

Pitch Kettles

NON-LEAKABLE WELDED STYLE "D"

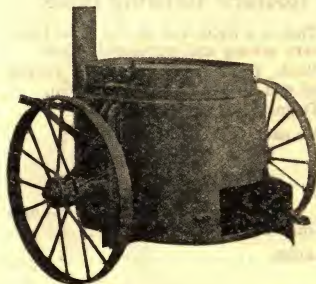
Specially for roofers and water-proofing contractors.

Made to take care of average city roof. Inside tank welded. Guaranteed not to leak. Easily removed for cleaning. Material may be heated on way to job. No delay.

40-gallon capacity.
Weight, 200 pounds.
28 inches x 34 inches.
Closed fire bottom and door.
Made of No. 12 fire box steel.



Style "D"



MADE IN TWO SIZES

Sizes	Style F	Style H
Cap. gal.	100	40
Weight	625	500
Height	42"	42"
Width	33"	30"
Wheel	30"	28"
Axle	2"	2"
Tire	4x $\frac{3}{8}$ "	4x $\frac{3}{8}$ "

When ordering always mention capacity.

Constructed for large roofing contractors as well as road contractors.

Constructed with large wheel with a view of moving easily on any character of new or rough roads. They insure minimum friction.

Has 2-inch solid crank axle with reinforced sides.

Furnished with iron wheels.

Has closed fire bottom and doors.

Easy to dip from.

We can furnish kettles to answer any requirement.

PRICES UPON APPLICATION

Pitch Dippers



Capacity, One Gallon

Pitch Buckets



Made in Two Sizes

12 x 12 inches, 6 gallons

14 x 14 inches, 10 gallons

Made of No. 22 Box Annealed Steel.

Used by roofers as mopping and carrying buckets.

Roofers' Hoisting Block

This is a light, but at the same time, a very strong and serviceable block.

Hook, frame and pin are of forged steel and sheave of best gray iron.

Diameter of sheave 12 inches.

Price each \$ _____



Slag Brooms

16-inch Block Reed Brush \$ _____

Handles \$ _____

Per Dozen

Roofing Pitch

Our roofing pitch is the very best grade procurable.

Barrels, approximately 350 pounds.

Roofing Slag.

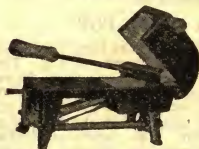
In carload quantities only.

Best Prices Quoted Upon Application



Johnson Gas Furnaces

Furnished for Artificial Gas Unless Otherwise Specified



Price \$10.00 Each

JOHNSON FURNACE No. 1

Length, 12 inches; weight, 12 pounds.

Fire pot opening, $3\frac{1}{4} \times 2\frac{1}{4}$ inches.

Gas consumption, 10 cubic feet an hour.

Equipped with one powerful Johnson Atmospheric Bunsen Burner with shut-off valve and pilot light. Fire box is lined with a refractory lining. This Furnace will handle a pair of six-pound soldering coppers and can also be used for heat treating of any carbon steel tools up to its capacity. The patented curved shaped hood forces a return blast over the tops of irons or parts to be heated.

JOHNSON FURNACE No. 101

Length, 14 inches; weight, 18 pounds.

Fire pot opening, $4\frac{1}{2} \times 2\frac{1}{2}$ inches.

Size of fire box, $3\frac{3}{4} \times 4\frac{1}{2} \times 5\frac{1}{2}$ inches.

Gas Consumption, 10 cubic feet an hour per burner.

Equipped with two powerful Johnson Atmospheric Bunsen Burners with shut-off valves and pilot lights. Fire box lined with refractory lining. This Furnace will handle a pair of 10 to 12 pound soldering coppers. Can also be used for the heat treating of any carbon steel tools up to its capacity. These Furnaces have the Johnson patented curved shaped hood that forces a return blast over the tops of the irons or parts to be heated.



Price \$13.00 Each



Price \$7.00 Each

JOHNSON FURNACE No. B501

Length, 12 inches; weight, 15 pounds.

Fire pot opening, $3\frac{1}{4} \times 2\frac{1}{4}$ inches.

Gas consumption, 10 cubic feet an hour.

This Furnace is designed to heat a pair of 6-pound soldering coppers. It is equipped with one Johnson Atmospheric Bunsen Burner with shut-off valve and pilot light. The base is lined with firebrick and the shelf in the rear protects the tinning on the points of the coppers and the patented curved shaped hood forces a return blast over the top of irons or parts to be heated.

JOHNSON FURNACE No. B502

Length, 14 inches; weight, 18 pounds.

Fire pot opening, $4\frac{1}{2} \times 3$ inches.

Gas consumption, 10 cubic feet an hour per burner.

This Furnace is exactly like the Series No. B501, only larger, having two independent burners with shut-off valves and pilots. Designed to heat a pair of 10 to 12 pound soldering coppers.



Price \$9.00 Each

Clayton & Lambert's Gasoline Fire Pots

FOR TINNERS, GALVANIZED IRON AND COPPER WORKERS,
PLUMBERS AND ELECTRICIANS



No. 1 Fire Pot
List Price \$27.20

THE No. 1 FIRE POT

The No. 1 Fire Pot is 13 inches high, 9% inches diameter at base and 6% inches at top. The tank is made of heavy gauge seamless drawn steel reinforced, tinned inside and out, fitted with patented cushion protection band preventing injury to base of tank, large funnel and filler plug having dustproof cap. The improved double needle burner represents the highest development in generating power and heat efficiency, giving satisfactory results under the most severe conditions of wind and weather. Swiveled Burner permits moving the flame up or down. A pair of 12 pound soldering coppers can be heated and a pot of lead or solder melted at the same time. Top section can be removed, thus producing an open fire.

Shipping Weight, 14 Pounds Each

THE No. 22 FIRE POT

The No. 22 Improved Coil Fire Pot is the latest achievement having all good points found in other coil fire pots and the latest patented up-to-date features. The tank is made of heavy gauge seamless drawn steel, tinned inside and out, making it absolutely rustproof and fitted with patented cushion protection band at base of tank. It is supplied with brass ears, elbows and tees, patented pump, large funnel and filler plug with dustproof cap, also with the latest patented three-piece coil cup and top plate, which enables the operator to remove top section by unscrewing three large brass nuts, exposing the burner and coil. There are no coil cup lugs or small nuts to burn off. The No. 22 Fire Pot uses less gasoline, produces more heat and will quickly melt a pot of metal.

Shipping Weight, 12½ Pounds Each



No. 22 Fire Pot
List Price \$15.00

THE No. 12 FIRE POT

The No. 12 Coil Fire Pot is exactly like the No. 22, except that it is fitted with air valve and bulb.

Shipping Weight, 12½ Pounds Each



No. 12 Fire Pot
List Price \$14.00

NOTE—We are in position to furnish the entire line of Fire Pots made by Clayton & Lambert Mfg. Co. Special catalog upon request.

Clayton & Lambert's Gasoline Torch

The No. 32 Quart Torch makes a perfect fire, whether used indoors or out, in hard wind or extreme cold. A strong blast heat is generated by a powerful burner and the resulting blue flame is a joy to the user. Every desired adjustment is quickly made. A surprisingly small amount of gasoline is required compared with the results obtained in heat efficiency. The burner has cast bronze hook and support for holding a soldering copper. Hook is removable. Patented cushion band at base of tank protects it from injury. The Torch creates a good impression the minute it is handled, being strong, exceedingly well built and handsomely finished. If durability and service are what you want, the No. 32 will certainly please you.



Capacity, One Quart. Shipping Weight 4 1/4 Pounds

No. 32 Torch
List Price \$16.00

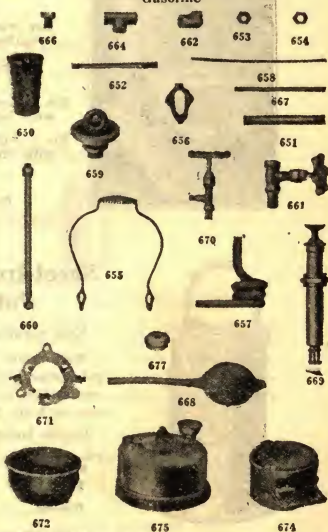
Repair Parts for Fire Pots

No. 1 New Style
Double Needle



Repair Parts for Coil Fire Pots

Nos. 12 and 22
Gasoline



In ordering repair parts, state the catalog number of Fire Pot shown on the tank

Gas Furnace



No. 794

Equipped with double burner, sheet iron top and brick lining. This furnace will burn natural or artificial gas, and will prove serviceable for general use in heating soldering coppers. Ready for use and with the proper flow of gas will produce a blue, hot flame.



Burgess No. 3 Gem Furnace

Are worked out-of-doors in all kinds of weather. On the market over 30 years

NO SMOKE—NO NOISE—NO ODOR

	Price Each
No. 3 Gem, galvanized steel reservoir with bulb	\$19.00
No. 3 Gem, galvanized steel reservoir with brass pump	20.50

Capacity 3 quarts

Discount.....Per Cent.

Sheet-Iron Fire Pots

Note Slanting Mouth

Well made of No. 24 galvanized iron. Height over all 12½ inches. Diameter of body 7 inches.

Double bottom in same.

Price Round Bottom	Price Square Bottom
\$1.50	\$2.00

Discount.....Per Cent.

ALSO SPECIAL SIZES TO ORDER



Plumbers' Malleable Iron Ladle

DOUBLE LIPPED



Diam. of Bowl	Depth	Length	Holds Metal	List Price Per Doz.
3 inch	1½ inch	15 inch	1½ lbs.	\$3.00
4 inch	1¾ inch	16 inch	3½ lbs.	4.80
5 inch	2 inch	19 inch	7 lbs.	7.20
6 inch	2½ inch	21 inch	12 lbs.	8.40

Discount.....Per Cent.



Plumbers' Melting Pot

CAST BOWL, WROUGHT IRON BAIL

Diam. of Bowl	Depth	Holds Metal	Weight	List Price Each
5 inch	2½ inch	10 lbs.	3 lbs.	\$0.50
6 inch	3½ inch	15 lbs.	4 lbs. .	.70

Discount.....Per Cent.

Plumbers' Candles

Best grade of tallow. Packed in boxes of 20 sets each. Each set consists of five candles weighing one pound to set.

Price, per pound.....\$_____

Tinners' Mallets



DOGWOOD MALLET

B. B. SPECIAL MALLET

These mallets are made of exceptionally hard wood and are positively the best to be had. Will outlast the ordinary mallet three-to-one.

SPECIAL MALLET

Per Dozen

2½ x 5½ inch...	\$_____
3 x 6 inch...	.....
3½ x 6 inch...	.....

DOGWOOD MALLET

Per Dozen

No. 9—2½ x 5½ inch...	\$_____
No. 10—2½ x 5½ inch...	.....
No. 11—3 x 6 inch...	.....

MILLER MALLET

Outlast wood, rubber, rawhide and lead mallets. Miller mallets are built for extra service. Laminated construction. Molded in one piece with second growth hickory handle.

No. 8—2 in. x 3½ in.,
8 oz., each \$_____

No. 16—2½ in. x 4½ in.,
16 oz., each

No. 24—2½ in. x 5½ in.,
24 oz., each

Solder

We handle three grades and take great care that each grade is always up to its proper standard. All new metal.

Prices are revised daily to the latest metal quotations.



This grade is a regular Commercial Half and Half, and will answer all ordinary requirements.



This Berbroscosco brand is a Guaranteed Half and Half, and a very popular brand. Sells on its merits.



B. B. Co. Special is our finest grade and is guaranteed better than Half and Half. Will answer all requirements.

WIRE SOLDER

Half and Half quality. In any quantity desired.

Kester Acid-Core and Rosin-Core
Wire Solder

Acid-Core is used for general soldering purposes, Rosin-Core for delicate electrical and radio work. Furnished in 1 and 5-pound spools.



Plumbers' Extra Wiping Solder in Cakes. Made entirely of new metal.

Pig lead and bar tin always carried in stock and priced at lowest market prices.

Soldering Coppers



Best Riveted Handles

Sizes—1, 1½, 2, 3, 4, 5, 6, 8, 10, 12 and 16 pounds per pair
Price per pound..... \$.....

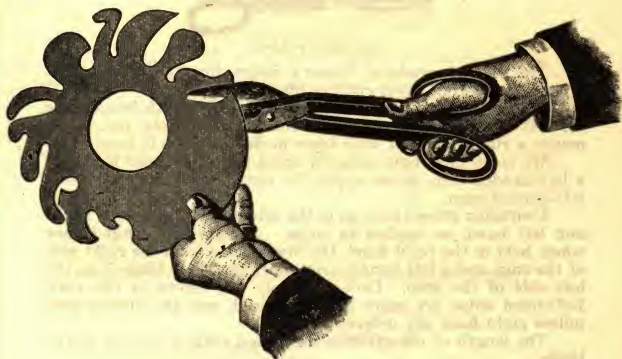


Best Hooked or Clinched Handles

Sizes—3, 4, 5, 6, 8, 10 and 12 pounds per pair
Price per pound..... \$.....

Always state whether weight wanted is per pair or each, and if
Clinched or Riveted Handles

Buffalo Combination Snips



The jaws of the Buffalo Combination Snip are so shaped that curves, scrolls and irregular shapes can be cut as well as straight lines. The jaws allow the material to pass freely when cutting curves or changing the direction of the cut.

Buffalo Circular Snips. As it is very desirable that snips with curved jaws intended to cut curves also have the jaws shaped "Buffalo" style, we offer the Buffalo Circular Snip.

These snips are finished in first-class manner, being forged out of the solid bar, with steel-laid jaws properly tempered.

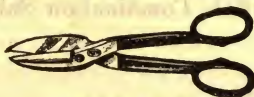
Per Pair

No. 17—Buffalo Straight Snip, 4 inch cut.....	\$2.90
No. 18—Buffalo Straight Snip, 3½ inch cut.....	2.40
No. 19—Buffalo Straight Snip, 3 inch cut.....	2.20
No. 17—Buffalo Circular Snip, 4 inch cut.....	3.60
No. 18—Buffalo Circular Snip, 3½ inch cut.....	3.10
No. 19—Buffalo Circular Snip, 3 inch cut.....	2.90

Made with handles for left hand at small additional cost

WRITE FOR DISCOUNT

1819 Original P. S. & W. Co.'s Snips



STRAIGHT BLADES

The highest grade of Tinner's Snips, forged from choicest material, superfine steel cutting blades.

We can furnish any of the following snips with bows made for left-handed men at an extra cost of fifty cents, net. This means a right-hand cut with bows made for the left hand.

We sometimes have calls for snips for left-handed men, but a left-handed snip, as we apply the term, is not intended for a left-handed man.

Confusion often arises as to the meaning of the term: Right and left hand, as applied to snips. A right-hand snip is one when, held in the right hand, the lower blade is on the right side of the snip, and a left-hand is one where the lower blade is on the left side of the snip. Left-hand only are shown in the cuts. Left-hand snips are more generally used, and are always sent unless right-hand are ordered.

The length of cut given is the actual cutting surface of the blade.

Finish: Blued handles and polished heads.

Number	06½	6½	7	8	9	10
Will cut iron.....No.	22	24	25	26	27	28
Length cut .....inches	4½	4½	4	3½	3	2½
Length over all.....inches	17	15¾	14¾	13½	12	11
Weight .....lbs.	5	3½	2½	2¼	1¾	1½
Price .....each						

Packed one in a carton.

1819 Original P. S. & W. Co.'s Snips



CURVED BLADES

The same careful selection of materials and the same high-grade workmanship as characterizes all 1819 Original Snips is found in these Circular Snips. For hard service and long life they have no competitors.

Number	C6½	C7	C8	C9	C10
Will cut iron .....No.	24	25	26	27	28
Length cut .....inches	4½	4	3½	3	2½
Length over all.....inches	15¾	14¾	13½	12	11
Price .....each					

Packed one in a carton.

FINISH—BLUED HANDLES AND POLISHED HEADS

Hercules Snips



STRAIGHT BLADES

These Snips are made so as to easily cut circles, scrolls, etc., and are equally adapted to the same class of work as the regular Snip. The jaws are beveled with straight cutting edges, which allows the material to pass freely when cutting curves or changing direction of the cut. A most superior tool for the various kinds of work, and one of unusually desirable qualities.

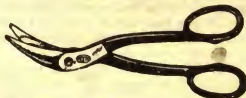
Number	146	147	148	149	150
Will cut iron..... No.	24	25	26	27	28
Length cut .....inches	4½	4	3½	3	2½
Length over all.....inches	15½	14½	13½	12½	11½
Weight .....lbs.	3¾	3	2¾	2	1¾
Price .....each					

Packed one in a carton.

Finish—Blued handles and polished heads.

Combination Scroll and Circular Snip

No. 15



A high-grade Snip with an extremely wide range of cutting usefulness, possessing a combination of individual features not found in any other Snip. Work can be cut on a straight line and they will cut circles or the radii of a circle in very much smaller dimensions than it is possible to cut with any other Snip on the inside as well as on the outside of a sheet of metal. They are especially adapted for cornice work practice in tight places where the regular hand Snip proves cumbersome. Best materials, with forged handles and steel blades are used.

No. 15—Cut 3 inches; entire length, 11¾ inches. Cuts No. 28 iron \$.....^{Each}

Finish—Blued handles and polished heads.

Hand Slitting Shears

No. 59



Made of a special design intended for cutting corrugated metal length-wise. These Shears are equally adapted for the same class of work as regular Snips. Both handles remain above the work and the Shears are so shaped that the cut sheets pass freely below the hand without danger of injury. Forged from best Norway iron and laid with highest grade steel.

No. 59—Cut 3 inches; entire length, 13½ inches. Cuts No. 24 iron \$.....^{Each}

Finish—Blued handles and polished heads.

Pocket Snip

No. 82



With the assurance of Pexto Quality added to its manifold uses, this tool cannot be surpassed. It is adapted to use by the mechanic, plumber, electrician and automobilist. The tinsmith and sheet metal worker will find it a very useful vest pocket shears.

No. 82—Cuts 2 inches; entire length, 7 inches; weighs $\frac{1}{4}$ lb., each

\$.....

The "Lyon" Snip

FOR CUTTING SCROLLS AND CIRCLES



A Snip that has always been popular because the user knows that he can get the best results from the famous P. S. & W. Company make. These Snips are especially adapted to cornice and tin work. They are made to cut circles, scrolls, etc., very

easily, but they are equally well adapted for regular snip work. The blades are rounding and very sharp pointed and can be used for very delicate work. Best materials, with forged handles and steel blades are used and the tool is fully warranted. At \$1.50 per pair extra, we can furnish Nos. 170, 180 and 190 with right-hand cut for left-hand man, or right-hand cut for right-hand man.

Number	165	170	180	190
Will cut iron.....No.	24	25	26	27
Length cut .....inches	4	3½	3	2¾
Length over all.....inches	15½	14	13	11½
Price	each			

Packed one in a carton.

Finish—Blued Handles and Polished Heads.

The "Wiss" Snip



In making this Snip a piece of the finest crucible steel is welded to the inside of the blades of the toughest of steel forgings which gives the "Wiss" Snip its perfect, lasting, cutting edge. The blades are perfectly shaped, with points made strong and the handles formed so that they will not tire the hand even after continuous use.

No. 9	—Regular pattern, cut 3 ins., entire length 12½ ins.	\$.....
No. 8	—Regular pattern, cut 3½ ins., entire length 13¾ ins. ....	.....
No. 7	—Regular pattern, cut 4 ins., entire length 14½ ins. ....	.....
No. 19	—Buffalo pattern, cut 3 ins., entire length 12½ ins. ....	.....
No. 18	—Buffalo pattern, cut 3½ ins., entire length 13½ ins. ....	.....
No. 17	—Buffalo pattern, cut 4 ins., entire length 14½ ins. ....	.....
No. 9C	—Circular blade, cut 3 ins., entire length 12½ ins. ....	.....
No. 8C	—Circular blade, cut 3½ ins., entire length 13¾ ins. ....	.....
No. 7C	—Circular blade, cut 4 ins., entire length 14½ ins. ....	.....

Compound Lever Shears

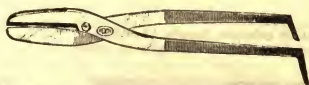


Made from drop forgings. Very strong and durable and cut easier than the old styles. The old styles require two to three times the same amount of strength to operate in heavy metal. The back part of the inside of the blades is cut away so as to allow them to more easily pass over or under the stock in cutting either inside or outside curves.

Each

No. 10—10½ inch, length of cut 2½ inch.....	\$.....
No. 12—12 inch, length of cut 3 inch.....	\$.....
No. 14—14 inch, length of cut 3½ inch.....	\$.....

Bench Shears



As regularly made, Bench Shears have a right-hand cut with the lower blade on the right side of the Shear. Pexto Bench Shears are made of high-grade materials and with the same skilled workmanship as characterizes the entire line.

Number	00	0	1	2	4	5	6	31	32	33
Cap. gauge iron ..No.	18	18	18	19	20	21	22	18	16	14
Length cut ....inches	11½	10½	9	8¾	7¾	6¼	5¼	4	6	7½
Length over all, inches	46	42½	39	37	30	27	25	26	39	46
Weight .....lbs.	36	30	24	19	12	9	8¼	9½	26	48
Price .....each										

Packed one in a package.

Finish—Black Handles and Polished Heads

“Handy” Seamer



Adjustable for seams of different width from ⅝ to ¾ inch. Can be used where larger seamer would not be practical. As it is light and measures but 7¼ inches by 3½ inches it can be carried in tool kit or pocket.

No. 791—Handy Seamer, japanned, each..... \$.....

JUMBO HANDY SEAMER

This Seamer is the same as No. 791 except it is heavier and larger. Measures 10¼ inches by 6¾ inches.

No. 795—Jumbo Handy Seamer, japanned, each..... \$.....



NEW WAY

BERRIDGE'S PATENT Pipe Snips and Pipe Crimpers

Patented Nov. 23, '97



OLD WAY



NEW WAY



OLD WAY



Have no equal for cutting and crimping stove pipe, conductor pipe, and furnace pipe.

Satisfaction guaranteed.

	Each
No. 1—Small	\$
No. 2—Medium, with crimper, length 13 inches.....
No. 3—Medium, without crimper, length 13 inches.....



Todd's Improved Cutting Nippers

Nos.	1	2	3	4
Length, inches	12	11	10	8
Width of cutter, inches.....	1 1/4	1 1/2	1 1/2	1 1/4
Price per pair	\$3.35	\$3.00	\$2.65	\$2.25

Discount.....Per Cent.

Extra Cutters

Nos.	1	2	3	4
Extra cutters, per pair.....	\$1.00	\$0.90	\$0.90	\$0.75



Discount.....Per Cent.

Standard Steel Square

POLISHED



Two Feet

No. 14—24 x 2 inches—16 x 1 1/2, 1/2, 1/4, each.....	\$
--	----------

Slip Joint Pliers



The No. 5 Slip Joint Plier is one that is sure to meet with instant favor. Without a doubt, it is the most useful type of Pliers made.

For the automobilist, mechanic, plumber, about the house or store, the No. 5 Slip Joint Plier may be used

anywhere for practically everything.

The Slip Joint type of design, permitting a wider opening of the burner jaws, is an aid to all-around use.

Size in inches.....	6	8	10
Weight in lbs.	6	8	12
No. 5—Polished Head Blued Handles.....	per dozen \$		
No. 5 N. P.—Full Nickel Plated.....	per dozen		

Flat Nose Pliers



Box Joint, Flat Nose, Forged Steel

Inches	3	3½	4	4½	5	5½	6	7	8
Weight in lbs.,									
per dozen	%	1	1½	2	2%	3	3%	6%	9
No. 20—Blued									
Handles,									
per dozen	\$								

Side Cutting Pliers

Lap Joint

The No. 40 Plier is a high-grade Plier, forged from crucible steel, finished with blued handles. It is fully guaranteed.



Inches	4	5	6	7	8
Weight in lbs.	2	2½	5	6½	10½
No. 40—Blued Handles.....	per dozen \$				

Round Nose Pliers



Box Joint, Round Nose, Forged Steel

Inches	3	3½	4	4½	5	5½	6	7	8
Weight in lbs.,									
per dozen	%	1	1½	2	2%	3	3%	6%	9
No. 25—Blued									
Handles,									
per dozen	\$								

Carlson Super-Pliers

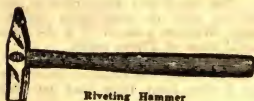


For automobile, shop, farm and household use; this tool is especially useful for parts concealed in corners or for use in close quarters. Has same sure, easy grip at all four adjustments.

Made of best quality steel, drop forged, machine and pack hardened.

Length over all, 7 inches..... \$

Riveting and Setting Hammers—Bright



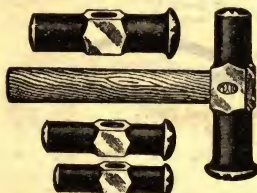
Riveting Hammer

No.	5
Size of face, inches	$\frac{5}{8}$
Weight, ounces	6
Price each	\$



Setting Hammer

4	$\frac{3}{4}$	2	1	0
$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{2}$
10	14	18	24	40



Raising Hammers

No.	Weight	Each
1—Handled, 82 ounces		\$
2—Handled, 60 ounces		
3—Handled, 36 ounces		
4—Handled, 28 ounces		

These dividers are without question the finest and most attractive tools of their kind made. Forged from the highest grade of steel, the upper part of legs are perfectly square, the lower part having a long taper. Head is large, firm and symmetrical. Wings are knurled to hold special point which is put on thumb screw. All parts highly polished and heavily nickel plated.

Inches
No. 165, each

Wing Dividers



6 7 8 10 12

Tinners' Roofing and Plumbers' Scrapers



These Scrapers are forged from the highest grade of steel. Are well tempered, finely finished and in all respects are perfect tools.

No. 996—Size $\frac{1}{4}$ x $\frac{5}{8}$ x 10 inches

Screw Drivers



No. 3 Solbar Screw Driver

superior tool of unusual desirable qualities. The design is correct and construction is such that the handle will not twist off under the severest strain. Packed $\frac{1}{2}$ doz. in carton.

Inches	2	3	4	5	6	7	8	10	12
Weight, per doz. lbs.	4	$4\frac{1}{2}$	$4\frac{3}{4}$	5	7	$7\frac{1}{2}$	10	$10\frac{1}{2}$	$11\frac{1}{2}$
Price per doz.	\$								

PRICES QUOTED UPON APPLICATION

Scratch Awls

No. 01—Steel scratch awls,
length $8\frac{1}{2}$ inches, per
dozen

\$



Soldering-Iron Handles

Per dozen \$
Per gross
Per 1000

Parker Shur-Grip
Solder-Iron Handle

This Handle overcomes all the
faults of the ordinary solder iron
handle. It has a hardened steel

casing made like a die which cuts a thread on the stem of the solder iron
as the handle is screwed on. Will not burn or char.

No. 7—For $1\frac{1}{2}$ to 4 lb. solder irons, each \$
No. 8—For 4 to 8 lb. solder irons, each
No. 9—For 8 to 12 lb. solder irons, each

PACKED ONE DOZEN OF A SIZE IN A CARTON



Logan's Soldering-Iron Handles



Without Heat Shield

This Handle is made of gas pipe
and the best hard wood; is neatly
finished, will not heat in use, and
will not break. The irons can be
instantly fastened or released by
turning a set screw.

EVERLASTING—TRY THEM

Price, each without heat
shield \$
Price each, with heat
shield \$



With Heat Shield

Discount Per Cent.

Roofing Tongs

SQUEEZING TONGS

Weight, lbs. 17
Length of squeezing jaws, inches $11\frac{1}{2}$
Depth of squeezing jaws, inches $\frac{3}{8}$
Length of handles, inches 24
Price \$



CLAMP TONGS

Weight, lbs. $3\frac{1}{2}$
Depth of jaws, inches 3
Length of handles, inches 14
Width of blades, inches $1\frac{1}{2}$
Length of blades, inches 6
Price \$



No. 766—Squeezing Tongs

Clamp Tongs No. 765

Burritt's Improved Duplex Treadle Seamers

Right and Left Foot Power

Two pair is a set, common gauge, to follow 1" and 1½" tongs; lock ¾" high when done.

Two pair is a set, wide gauge, to follow 1¼" and 1½" tongs; lock 1 inch high when done.

No changing gauge.

No mallet work.

Will close seam either foot, up or down the roof.

A SPECIAL Seamer is furnished for GALVANIZED ROOFING.



WRITE FOR PRICE

Common Roofing Tongs

Sizes ½, ¾, 1, 1¼, 1½, 1¾ and 2 inches. 18½-inch Blades

Per set of two pairs..... \$.....

Adjustable Roofing Tongs No. 773

Will Turn Width of Locks ½, ¾, 1, 1¼, 1½

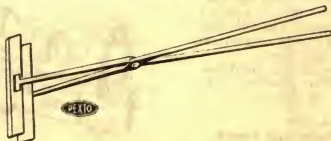
Length of Blades, 18½ inches

Each \$.....

Illustration as shown above



Gutter Tongs, No. 777



Gutter Tongs, each \$.....

Depth of jaws, 14 inches; width of blades, 1¾ inches; length of blades, 12½ inches.

Roofing Double Seamers

No. 743 Series



Number	743	744	745	746
Weight per set	14 lbs.	16	19	22
Sizes	$\frac{1}{2} \times \frac{3}{4}$ inches	$\frac{3}{4} \times 1$	$1 \times 1\frac{1}{4}$	$1\frac{1}{4} \times 1\frac{1}{2}$
Match up with Roofing Tongs..	$\frac{3}{4} \times 1$	$1 \times 1\frac{1}{4}$	$1\frac{1}{4} \times 1\frac{1}{2}$	$1\frac{1}{2} \times 1\frac{3}{4}$
Price per set two pairs.....	\$.....	.....	.....	.....

Parker Metal Punch



The No. O. X. Parker Punch is the only hand punch with a front and side gauge combined. The gauge is used as a screw driver to change die, also wrench for changing punch.

The front pointer in connection with the side gauge enables you to locate the centre of the

punch without the necessity of looking into the throat; this feature saves a good deal of time in locating a centre, and does away with centre punching your work.

Made of O. H. Forged Steel, heat treated. All working parts are hardened and tempered. Will punch $\frac{1}{4}$ inch hole in 16-gauge steel. Depth of throat to centre of punch $1\frac{1}{2}$ inches. Weight about 2½ pounds.

Price, including 1 punch and 1 die.....\$7.00 net

Extra punches, \$0.30 each

Extra dies, \$0.40 each

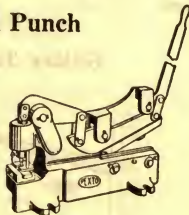
Shear and Punch

This machine is suitable for both cutting and punching metal. It may be used for cutting $\frac{1}{8}$ -inch iron and $\frac{1}{16}$ and $\frac{1}{4}$ -inch narrow bars. The No. 679 will punch the centre of a circle $5\frac{1}{2}$ inches in diameter.

Furnished with one combination die and five punches: viz., $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{4}$, $\frac{3}{16}$, $\frac{5}{16}$ inches.

No. 679

Combined Shear and Punch

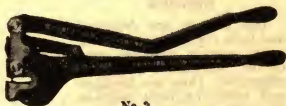


No. 679—Shear and punch, weight, 120 lbs.	\$.....
Die holders .....	.....
Extra punches .....	.....
Extra dies .....	.....

Whitney's Portable Hand Punch

A Modern Money Saving Tool
Frequently pays for itself on one
job. Dies quickly and easily
changed or adjusted

Punches and dies in 13 sizes,
from $\frac{1}{8}$ to $\frac{1}{2}$ inch, and by one-
thirty-seconds. One punch and one
die furnished with each punch. Weight, 14 lbs.; length over all, 23 inches.



No. 2

No. 2 Whitney's hand punch.....\$15.00 net
Extra punches or dies, each......50 net

Capacity, $\frac{5}{16}$ inch hole through $\frac{1}{4}$ inch iron or equivalent

Whitney's Channel Iron Punch

Every part interchangeable
with No. 2 Whitney punch.
Punches to centre of 4 inch
channels, with $1\frac{1}{2}$ inch flanges.
Same 13 size punches and dies
used as in No. 2 punch. Weighs
 $16\frac{1}{2}$ lbs., length 23 inches.



No. 2 Whitney's channel iron punch.....\$16.00 net
Extra punches or dies, each......50 net

Capacity, $\frac{1}{4}$ inch hole through $\frac{1}{4}$ inch iron or equivalent

Sheet Metal Reamer and Socket Wrench

A combination tool of great
value to the worker in sheet metal.
The reamer is forged from a high-
grade steel properly hardened and
tempered, drawn to a sharp, hard
point for pricking through light
material and reaming holes to
ordinary size required for fitting
dampers in pipe and for general
rough punching where a hand
punch is not available.

The handle is of malleable iron
made up in a socket wrench with
 $\frac{1}{2}$ inch and $\frac{3}{8}$ inch square hole.



Number 792
Length over all, inches... 7
Length of reamer over all,
inches 5
Length of handle, inches .. 4

Victor No. 3

PUNCH, SHEAR AND BENDER

The Victors are designed and built for the tinner, sheet metal worker, plumber, machinist, blacksmith and manufacturer. They are compact and have the least number of moving parts possible; and have proven conclusively to be the most practical, economical and easily operated machines on the market.

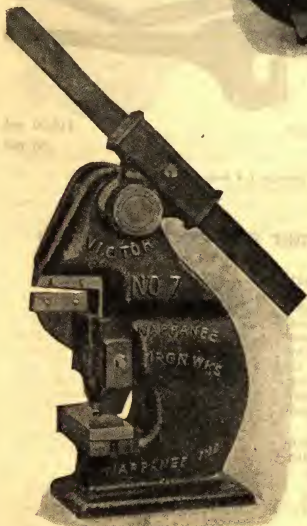
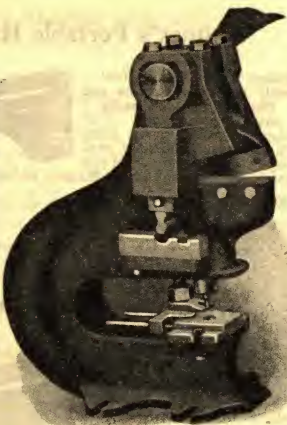
CAPACITY

Punch	..... 1/4 in. through 1/4 in.
Shear	..... 1/4 x 1 1/2 in.
Blades	..... 3 1/2 in.
Bend	..... 3/16 x 1 1/4 in.
Weight	..... 175 lbs.

Will punch to centre of 12-inch sheet or 1/2-inch angle.

List price \$70.00

Discount Per Cent.



Victor No. 7

SHEAR AND PUNCH

Victor No. 7 is designed for general service and is equally convenient for punching and cutting either light or heavy material. The lever is sufficiently long for immense power in heavy work and by means of a special socket can be instantly changed to a suitable length for light work.

All work being done at the front places the operator in position to do accurate and fast work and admits of the machine being set against the wall, doing away with a special bench in the centre of an overcrowded room.

Three different size punches and dies are furnished with each machine.

CAPACITY

Punch	Shear	Punch to Center of	Bench or Floor space
3/8 in.	5/8 x 2 in.	8 in. plate	occupied
1/2 in.	1 1/4 x 5 in.	or 1/2 in. angle	12x18 in.

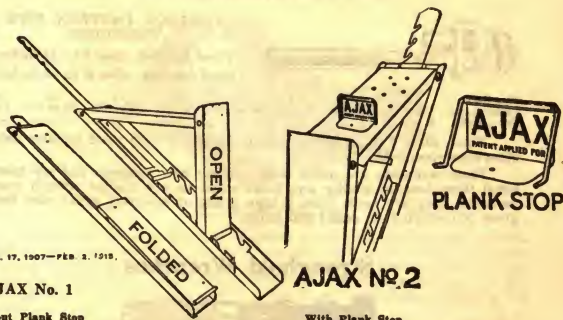
Weight 250 lbs.

Will punch 1/2 in. hole in 5/8 in. plate.

List price \$70.00

Discount Per Cent.

Ajax Folding Roof Bracket



AJAX No. 1

Without Plank Stop

AJAX No. 2

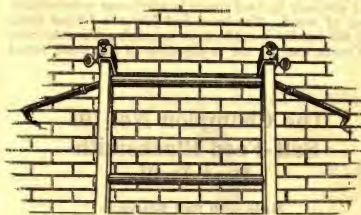
With Plank Stop

The Ajax Folding Roof Bracket is the most popular bracket on the market. Made of No. 16 and 18 gauge galvanized metal formed and riveted in such a manner making a bracket guaranteed to carry any weight that can be piled on. Instantly adjustable to any pitch of the roof. Boards or planks up to 12 inches can be used. Pays for itself on first job. Each net.

No. 1—Without plank stop \$2.45

No. 2—With plank stop 2.65

CHEAPER IN DOZEN LOTS



PATENT APPLIED FOR

Seaman Safety Bracket

Fits Any Ladder
Insures Safety

Indispensable for hanging gutter, screens, etc. Holds the ladder away from building 14 inches. The safety clip on the arm keeps fire or paint pot from sliding. Price per set..\$5.00 net

Black & Decker Portable Electric Drill

Drill complete with three-jaw geared nut chuck for straight-shank drill bits up to $\frac{1}{4}$ inch. 7 $\frac{1}{2}$ feet of special lightweight duplex electric cable fitted with attachment plug. Net weight, 5 lbs. Price for 110 volts..\$28.00 net



Operates on Direct or Alternating Current and on Voltages 10% Over or Under Those Specified

Wrenches



STILLSON PATTERN PIPE WRENCHES

Wood handles, sizes 6 to 14 inches

Steel handles, sizes 6 to 48 inches

Size, ins.	6	8	10	14	18	24	36	48
Capacity, ins.	$\frac{1}{8}$ to $\frac{1}{2}$	$\frac{1}{8}$ to $\frac{3}{8}$	$\frac{1}{8}$ to 1	$\frac{1}{4}$ to $1\frac{1}{2}$	$\frac{1}{4}$ to 2	$\frac{1}{4}$ to $2\frac{1}{2}$	$\frac{1}{2}$ to $3\frac{1}{2}$	1 to 5
Price, each	\$							

Note—Sizes 6 to 14 inches will be furnished with wood handles unless otherwise specified.

These wrenches are made from entirely new patterns and we recommend them both in quality and finish equal to any similar wrench manufactured; they are made from a high grade of material, great care being given to construction, detail and finish.

Stronghold Wrenches



No. 25, black, inches.....	6	8	10	12	15	18	21
Will open, inches.....	$\frac{7}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$3\frac{1}{2}$	4
Price each	\$						

The material in the Stronghold Wrench and the strong construction of the same and careful workmanship employed give this wrench the strength required to withstand heavy service. The sides of handle are made of selected hard wood and held securely by two rivets headed over countersunk washers to prevent splitting of wood. The head and jaw are forged from a special grade of steel and the handle is made from a tough malleable iron. Selected from Pexto Big Wrench line for use in the shop of the sheet metal worker.



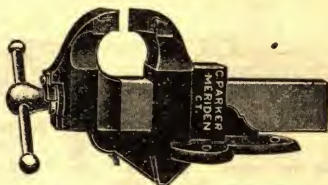
The Champion No. 101 Self-Feed Blacksmith Post Drill

Made with Ball Bearings

No. 101 Champion Post Drill is built to furnish an automatic self-feed drill at the lowest price possible. It has back gears and is a nicely made little drill with slotted lathe-turned table. It will drill to the center of a 12-inch circle. It has one speed for the crank. The spindle is $\frac{3}{8}$ -inch in diameter. It drills holes up to $\frac{1}{2}$ -inch and has an up-and-down run of 3 inches. The spindle is bored like Never-Slip Chuck for $\frac{1}{2}$ -inch straight shank drills, or, when especially ordered, $\frac{3}{8}$ or $\frac{1}{4}$.

Each
Price \$

Parker's Eclipse Vise



STATIONARY BASE

The Eclipse Vise is equal to the very best produced by other makers. Years of experience and complete factory equipment provide stronger castings, better distribution of material in design. In addition this vise has renewable high-grade steel faces, milled and fitted to the jaws. A cut thread, screw and nut. The saddle, saddle screw and tension spring in the lever.

We can also furnish this vise with swivel base at a slight advance in cost.

No.	Width Jaws, Inches	Jaws Open, Inches	Depth Opening, Inches	Weight, Pounds	List Price, Each
100	2	3½	3	13½	\$8.25
101	2½	3½	3	14	9.00
102	3	4½	3¼	22	10.00
103	3½	5½	3¾	35	11.25
104	4	6½	3¾	43	12.75
105	4½	7	4¼	61	15.50
106	5	8	4¾	83	20.00
106½	5½	9	5½	105	30.00
107	6	10½	5½	132	39.00

Discount.....Per Cent.

Chicago Steel Slitting Shear



Easiest Operated and Most Durable
Hand Bench Shear on the Market

Indispensable for slitting sheet steel
and for cutting steel bars, band iron,
brake band lining, belting,

Pressed steel construction. Shear
blades made of highest grade crucible
steel. Equipped with adjustable hold-
down. All parts interchangeable.

CAPACITY 3-16 in. x 2 in. BARS

10 GAUGE SHEETS

Also Furnished for Cutting Angle Iron

PRICES UPON REQUEST

Roofing Folders

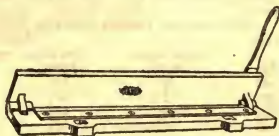


ROOFING FOLDER Nos. 3C-13C-33C	ROOFING FOLDER Nos. 113 IMP.-123 IMP.				
Nos.	3C	13C	33C	113 Imp.	123 Imp.
Length, inches	14	20	30	20	30
Will form locks, size, inches..	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$ to $\frac{3}{8}$	$\frac{1}{8}$ to $\frac{3}{8}$
Price	\$				

NOTE—C after number signifies common type and fitted for one size lock only. Imp. after number signifies improved pattern with adjustable gauge.

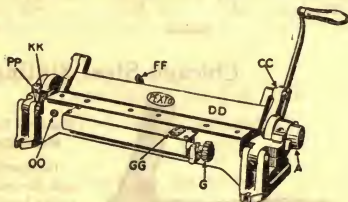
Iron Bottom Sheet Iron Folder

No.	2
Length, inches	30
Will form locks, ins. $\frac{1}{8}$ to $\frac{3}{8}$	
Capacity, No. 22 gauge.	
Price	\$



Pexto Arrow Adjustable Bar Folders

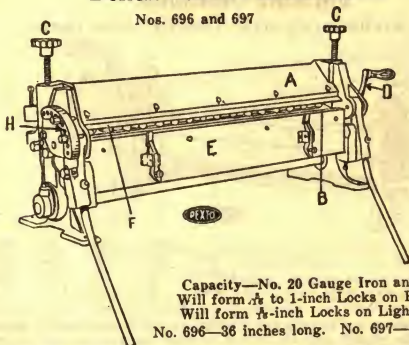
These Folders are made from new patterns. Represent the last word in Bar Folding construction. They are intended for forming the edges of sheet metal at various angles. They will produce closed locks as well as open or round locks for inserting a wire in the flat sheet.



No. 62-No. 63—Capacity $\frac{1}{8}$ inch locks and wider, No. 22 gauge and lighter.		
No. 62-No. 63—Capacity $\frac{1}{8}$ inch locks and wider, No. 24 gauge and lighter.		
No. 62-No. 63—Capacity $\frac{1}{8}$ inch locks and wider, No. XX tin.		
No. 055-No. 058—Capacity $\frac{1}{8}$ inch locks, No. 20 $\frac{1}{8}$ inch locks, No. 22 gauge.		
Nos.	62	63
Length, inches	20 $\frac{1}{2}$	30
Will form closed and open locks, inches.....	$\frac{1}{8}$ to 1	$\frac{1}{8}$ to 1
Will form open locks to receive a wire up to, inches..	$\frac{1}{8}$	$\frac{1}{8}$
Price	\$	\$
Nos.	055	058
Length, inches	37	42
Will form closed and open locks, inches.....	$\frac{1}{8}$ to 1	$\frac{1}{8}$ to 1 $\frac{1}{2}$
Price	\$	\$

Bench Folders and Brakes

Nos. 696 and 697



Capacity—No. 20 Gauge Iron and Lighter
Will form $\frac{1}{4}$ to 1-inch Locks on Heavy Iron
Will form $\frac{1}{4}$ -inch Locks on Light Material

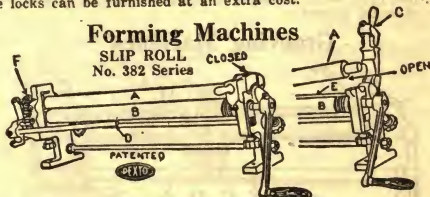
No. 696—36 inches long. No. 697—42 inches long

With these new Bench Combination Folder and Brake Patterns a variety of folding operations are possible. Like the regular floor brake, the jaws allow for the forming of any size of angle, the sheet remaining stationary while the folding takes place. It will form the edges for lock seams with a nicety. Fitted with adjustable gauges, the scribing of sheets before each bend is not necessary.

NOTE—Furnished regularly with folding blade for sharp or closed locks and adjustable front and rear gauges. Extra blades for forming open or wire locks can be furnished at an extra cost.

Forming Machines

SLIP ROLL
No. 382 Series



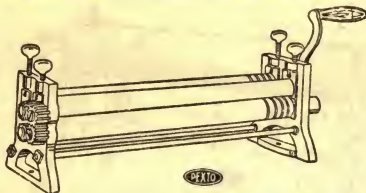
Number	382	381	0381	390	400
Shipping weight, approximately, lbs.	165	180	200	350	300
Length rolls	31	37	43	37	31
Diameter rolls	2	2	2	2½	2½
Gripping rolls, open	½	½	½	½	½
Price	\$				

NOTE—In these Formers Gripping Rolls (A) and (B) have an extreme clearance of $\frac{1}{4}$ inch. Grooves cut in rolls are intended to allow work with a wire to be formed. Tight pulley, or tight and loose pulleys and iron floor legs can be fitted when so ordered. Nos. 390 and 400 are back geared and have rolls 2½ inches in diameter with a ratio of gearing 2 to 1.

New original Pexto features are embodied in these Forming Machine Patterns that place them in a class by themselves. They are greatly improved over our old Slip Roll Pattern Forming Machines and those which the present market offers. A careful study of the illustration shows the time and steps saved through being able to perform all operations at one end of the machine, the convenient end where the crank is fitted.

Forming Machines

WITH MACHINE CUT STEEL COMPENSATING GEARS

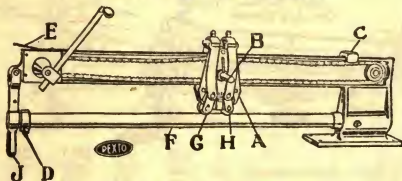


Number	0372	372	373	380
Shipping weight	approximately, lbs. 185	165	140	60
Length rolls	inches 43	37	31	20½
Diameter rolls	inches 2	2	2	1½
Price	\$.....			

NOTE—Grooves cut in rolls are intended to allow work with a wire to be formed. Wire should only be formed between the grooves cut for that purpose.

These Formers have solid housings and are fitted with machine cut steel compensating gears. Gears to run smoothly should mesh constantly to a certain depth and the shape of the teeth should be accommodated to such depth. In these Formers the gears on the gripping rolls do not mesh with each other, but with two gears so hung that when the gripping rolls are moved the mesh of the gearing is unchanged. This insures uniformity of action and durability for the gears, they running more smoothly than cast-iron cogs, without danger of slipping or breaking with whatever thickness of metal is used.

Grooving Machines



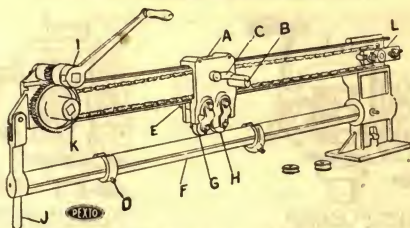
Capacity—No. 24 Gauge Iron and Lighter

Number	518
Shipping weight	approximately, lbs. 200
Will groove work length	inches 30
Diameter of smallest pipe that can be grooved	inches 2
Price	\$.....

NOTE—Rolls are furnished, one each, with ¼, ⅝ and ¾-inch grooves and one flattening roll.

The best machine of its kind for grooving the longitudinal seams in stove pipe and other sheet metal cylinders. It differs from the ordinary Groover in that it is more rapid, the operator standing in front of the machine and does not have to change his position when inserting and removing work and operating the machine.

Grooving Machines

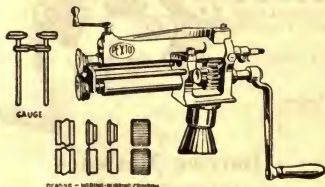


Capacity—No. 20 Gauge Iron and Lighter

Number	520
Shipping weight	approximately, lbs. 410
Will groove work length.....inches	36
Diameter of smallest pipe that can be grooved.....inches	3
Ratio of gearing	3½ to 1
Price	\$.....

NOTE—Furnished with $\frac{1}{8}$ -inch grooving roll for No. 20 gauge, $\frac{1}{16}$ -inch for No. 22 gauge, $\frac{1}{32}$ -inch for No. 24 gauge and lighter. Rolls of other dimensions are special and are only made when ordered at extra cost.

The trained eye of a mechanic is not necessary to claim for these new patterns a masterpiece machine for grooving and flattening the seams in heavy sheet metal work. The more important principles embodied in the construction of this machine are original, making for a greatly serviceable and convenient machine for light as well as heavy work.



All-in-won Rotary Machine

FIVE OPERATIONS WITH
ONE MACHINE

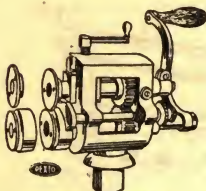
Capacity—Using crimping or
beading rolls No. 26 gauge
iron and lighter.

Capacity—Using turning,
wiring or burring rolls No.
24 gauge iron and lighter.

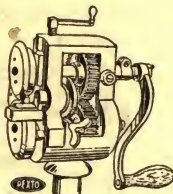
Number	622
Shipping weight	approx. lbs. 60
Depth throat to frame	inches 6¼
Depth throat to gauge	inches 5½
Width crimping rolls	inches 1½
Width beading rolls	inches 1½
Diameter turning and wiring rolls	inches 1½
Smallest wire that can be used with turning rolls.....gauge	11
Wiring rolls will receive wire up to.....gauge	5
Widest flange or burr that can be turned with burring rolls	inches 1½
Distance between shaft centers.....inches	1½
Packed one in a box.	

NOTE—Furnished complete with standard and five pairs of rolls, viz., crimping, beading, turning, wiring, and burring and one extra gauge. Extra special rolls quoted on receipt of specifications. Provided with forward and reverse drive.

Turning and Wiring Machines



**COLUMBIAN PATTERN
TURNING MACHINE**
Capacity No. 22 Iron and Lighter



**COLUMBIAN PATTERN
WIRING MACHINE**
Capacity No. 22 Iron and Lighter

No. 541—Small Columbian Turning Machine, with Standard, weight 25 lbs.....	\$	_____
No. 542—Large Columbian Turning Machine, with Standard, weight 31 lbs.....	_____	_____
No. 545—Small Encased Turning Machine, with Standard, weight 23 lbs.....	_____	_____
No. 546—Large Encased Turning Machine, with Standard, weight 28 lbs.....	_____	_____
No. 525—Columbian Wiring Machine, with Standard, weight 31 lbs.....	_____	_____
No. 526—Encased Wiring Machine, with Standard, weight 28 lbs.....	_____	_____

Improved Setting Down Machines

The improvements on this machine adapt it for setting down the seams of differently shaped vessels to better advantage than any other design.

The inclined position of both upper and lower faces allows work to be held up or down and seams to be started inward while setting down, thereby facilitating the operation of double seaming.

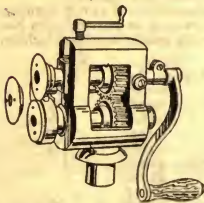
Adjustable gauges, with idler rollers are furnished.

For seams up to $\frac{3}{8}$ inch.

Capacity No. 24 Iron and Lighter

— Shipping weight, approximately 50 lbs.

No. 561—With Standard..... \$ _____



Burring Machines

COLUMBIAN PATTERN

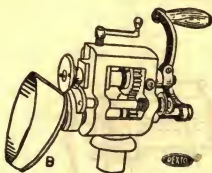
These machines are made in open pattern with solid frame of improved design well known for their splendid wearing qualities, accuracy and ease of operation. The rolls are forged from special high-grade material giving extreme wearing qualities to the fine edge in the rolls necessary to produce a satisfactory uniform flange on a number of blanks.

Capacity No. 22 Iron and Lighter

Numbers	576 Small	577 Large
Weight, lbs.	21	25
Diameter of rolls, inches	1 $\frac{1}{2}$	2 $\frac{1}{4}$
Widest flange or burr that can be turned, inches	$\frac{3}{16}$	$\frac{1}{4}$
Price with one extra upper roll and standard.....	\$ _____	_____

ALSO FURNISHED ENCASED PATTERN

Elbow Edging Machines



COLUMBIAN PATTERN ELBOW EDGING MACHINE

Capacity No. 24 Iron and Lighter

Number	551
Shipping weight, approximate lbs.	25
Diameter of rolls, inches	2½
Furnished with one set elbow edging rolls in either of eight types illustrated below and standard.	
Price	\$.....

Note—Where specifications do not accompany orders, rolls in Design No. 1 will be furnished regularly.

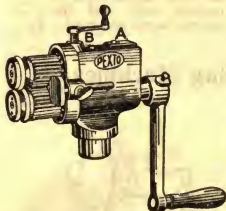
Elbow Edging Rolls



Numbers 1 to 8, per pair..... \$.....

These rolls in all designs will fit Encased and Columbian Pattern Machines Nos. 541 and 545.

Common Sense Combination Crimping and Beading Machine



A common-sense, direct-acting Crimping and Beading Machine recently made from new patterns. It fills a long-felt want for a compact, well-constructed, simple but durable machine that may be depended upon to perform with precision and accuracy for making a uniform crimp and bead or crimp only in pipe of black or galvanized iron.

It has been designed for serving every requirement of the large or the small sheet metal shop and will prove an inexpensive, desirable addition to the stove pipe department of the hardware store.

Capacity No. 24 Gauge Iron and Lighter

	Spiral Crimp	Straight Crimp
Number	581	0581
Width crimping rolls.....inches	1¾	1¾
Width beading rolls.....inches	1	1
Diameter beading rolls.....inches	1½	1½
Diameter crimping rolls.....inches	1½	1½
Size ogee bead.....inches	½	½
Shipped boxed regularly.....approx. lbs.	30	30

NOTE—Furnished complete with one pair of steel blank collars and off-set bench standard.

Beading Machines

STOW'S PATENT BEADING MACHINE

Capacity No. 24 Iron and Lighter

The illustration shows the No. 620 Beading Machine with single beading rolls attached.

The three pairs of rolls, detached and shown in the cut from left to right, are Ogee, $\frac{3}{4}$ inch; Triple, $\frac{3}{4}$ inch and Triple Coffee Pot Bead, $\frac{1}{2}$ inch.

Four pairs of rolls and standard furnished with each machine.

Depth of throat to frame.. $6\frac{1}{4}$ ins.

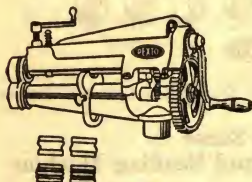
Depth of throat to gauge.. $5\frac{1}{2}$ ins.

Diameter of rolls..... $1\frac{1}{8}$ ins.

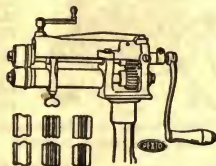
Width of rolls..... $1\frac{1}{2}$ ins.

Shipping weight 50 lbs.

Price \$



No. 617



No. 620

BEADING MACHINE

Capacity No. 20 Iron and Lighter

This machine is especially adapted to work requiring a deep throat, such as automobile fenders, etc.

Depth of throat to frame. 13 ins.

Depth of throat to gauge. 12 ins.

Diameter of rolls..... $2\frac{1}{4}$ ins.

Width of rolls..... 1 $\frac{1}{2}$ ins.

Ratio of gearing $3\frac{1}{2}$ to 1

Shipping weight, approx.. 140 lbs.

Price with three pairs of regular rolls and improved bench standard.. \$

Crimping and Beading Machines

BACK GEARED—Ratio 3 to 1

Capacity No. 20 Iron and Lighter

No. 585—With spiral crimping and beading rolls and standard, weight 65 lbs.

Price \$

No. 0585—With straight crimping and beading rolls and standard, weight 65 lbs. Price... \$

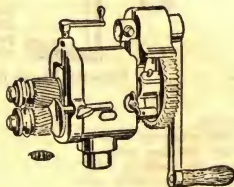
No. 595

CRIMPER AND BEADER

Capacity No. 24 Iron and Lighter

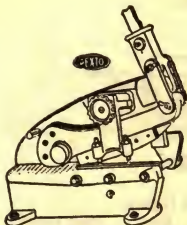
With spiral crimping and beading rolls and standard, weight 70 lbs.

Price \$



No. 0595 Same as Above Except With Straight Crimping Rolls

Slitting Shears



Capacity—No. 10 Gauge Iron and Lighter
Will Cut Bar Iron $\frac{1}{4}$ x $1\frac{1}{2}$ in.
No. R0296 Will Cut Rods Up to $\frac{1}{2}$ in. Diameter

Shipping weight...approximately, lbs.

Length cutting blades.....inches

Length gauge rod.....inches

Price

Price for extra blades.....

No.	No. R0296
Plain	with Rod Cutter
185	190

10

14½

\$

NOTE—No. 0296 is a plain Slitting Shears; No. R0296 is the same as No. 0296, but is fitted with a serviceable and very practical rod cutting attachment.

These Shears are commended for the slitting of sheets, length or crosswise, with ease up to their full rated capacity. They are patterned so as to allow sheets to pass freely, and proportioned so as to obtain the greatest strength and durability. They are furnished with or without rod cutting attachment.

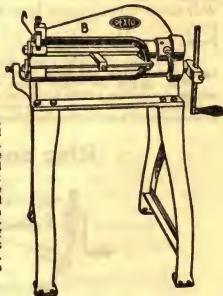
It must be remembered that the service a lever shears will give depends greatly on the care exercised in keeping up the adjustments provided for the blades and in keeping the blades sharp.

Rotary Slitting Shears

Capacity—No. 16 Gauge Iron and Lighter

Number	255
Shipping weight	325
Diameter cutters	3½
Depth cutting head to gauge.....inches	18
Depth cutting head to frame.....inches	19
Size table	20x8
Price	\$
Price extra cutters.....per pair	\$

These Shears will prove a time saver in any shop. They permit the most rapid means for slitting iron used in cornice, furnace, blow-pipe, ventilation work, etc. They may be utilized for conveniently cutting large irregular curves and circles when following a scribed line in a fraction of the time it takes to do the work with snips or bench shears. The cutters are made from a special high-grade tool steel, properly hardened and tempered and have two cutting edges, making them reversible. The crank is adjustable to different lever-ages, bearings (A) are adjustable to take up wear of the cutters and the cutting head (B) is of compact construction and is mounted on heavy cast iron legs. A desirable substitute for the 8-foot squaring shears where floor space is limited.



Lenox Throatless Shear

This shear is intended for all manner of sheet metal shearing, including irregular shaped pieces, inside curves and almost any manner of special work covering flat metal.

No. 18H—Hand Power

Capacity—18 gauge and lighter, cuts to $1\frac{1}{4}$ inch radius.

Head—Solid cast steel.

Base—Hardwood.

Gears—Steel and cast iron cut.

Cutters—Adjustable. 2 x $2\frac{1}{2}$ inch, special high-grade steel, oil tempered; upper cutter driven and slightly knurled to feed material; accurately ground; lower cutter runs free in sleeve.

List price

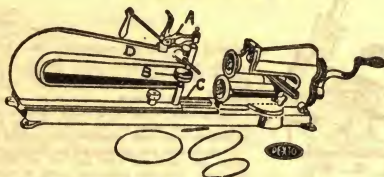
Discount.....Per Cent.

A circular cutting attachment is furnished at a small additional cost that will guide material in cutting discs from 7 inches in diameter to 24 inches.



WE CAN ALSO FURNISH SHEARS FOR HEAVIER DUTY, HAND AND POWER DRIVEN

Circular Shears



Capacity—No. 22 Gauge Iron and Lighter

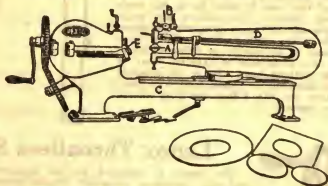
	Hand	Tight Pulley
Number	278	0278
Shipping weight	125	146
Diameter cutters	3 $\frac{1}{2}$	3 $\frac{1}{2}$
Diameter clamping discs	2	2
Depth cutting head to gauge	9 $\frac{1}{4}$	9 $\frac{1}{4}$
Depth cutting head to frame	10 $\frac{1}{4}$	10 $\frac{1}{4}$
Depth circle arm	16 $\frac{1}{4}$	16 $\frac{1}{4}$
Will circle from square blanks	2 $\frac{1}{4}$ to 22	2 $\frac{1}{4}$ to 22
Price	\$	\$
Price for extra cutters	per pair	per pair

NOTE—No. 278 is arranged with crank for hand use. No. 0278 is for power and has tight pulley. Tight and loose pulleys are not furnished with these patterns.

These Shears are widely known and have won an enviable reputation. They are most suitable for cutting outside circles, trimming or squaring tin plate, sheet iron, brass and copper.

Many original improvements are embodied in their construction, making them the most durable general service Circular Shears that the market offers.

Ring and Circular Shears

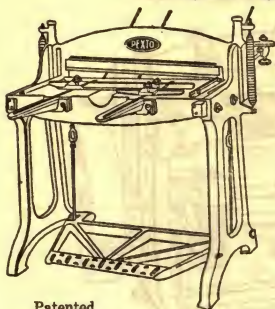


Capacity—No. 20 Gauge Iron and Lighter

	298	299
Number	195	290
Shipping weight	195	290
Diameter cutters	1 $\frac{1}{2}$	1 $\frac{1}{2}$
Diameter clamping discs	2 $\frac{1}{4}$	2 $\frac{1}{4}$
Depth cutting head to gauge	9 $\frac{1}{4}$	9 $\frac{1}{4}$
Depth cutting head to frame	10	10
Depth circle arm	16 $\frac{1}{4}$	30 $\frac{1}{4}$
Will circle from square blanks	3 $\frac{1}{4}$ to 22	3 $\frac{1}{4}$ to 42 $\frac{1}{2}$
Will cut rings small as (inside diameter) ..	3 $\frac{1}{4}$	3 $\frac{1}{4}$
Will cut rings large as (outside diameter) ..	22	42 $\frac{1}{2}$
Price	\$	\$
Price extra cutters	per pair	per pair

These improved patterns make up for a very useful and efficient bench ring and Circular Shears, intended for cutting circles or internal rings and irregular curves.

Squaring Shears



Patented

These new patterns are preferred over other shears owing to their extra wide bed plate and are so proportioned that they will cut up to the full rated capacity very much easier than any other similar shears of the same capacity. They are guaranteed to give very excellent service and Pexto high-grade quality materials combined with thorough workmanship make them the most desirable up-to-date medium-weight shears that the market offers.

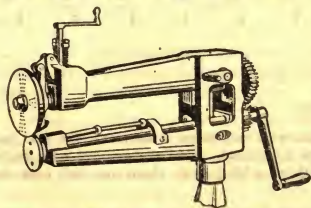
Capacity—No. 18 Gauge Iron and Lighter

Number	122	132	137	142
Shipping weight approximately, lbs.	375	540	650	800
Length cutting blades.....inches	22	30	36	42
Length short front arms.....inches	12½			
Length long front arms.....inches		19	25¼	25¼
Length rear gauge arms.....inches	24	30	30	30
Price with side tables.....	\$_____	\$_____	\$_____	\$_____
Price without side tables.....	_____	_____	_____	_____
Price for extra blades.....per pair	_____	_____	_____	_____
Shipped regularly	Crated	Crated	On Skids	On Skids

NOTE—No. 122 furnished with short front arms. Other numbers are furnished with long front arms. No. 137 and No. 142 have hold-down attachment.

Complete Gauge Equipment Furnished With All Numbers
Side Tables and Wood Shelf Will Not Be Sent Unless Specified

Double Seaming Machines



Capacity—No. 26 Gauge Iron and Lighter

	No. 644	No. 646
	Inches	Inches
Will receive work in depth	15½	10
Price	\$_____	\$_____

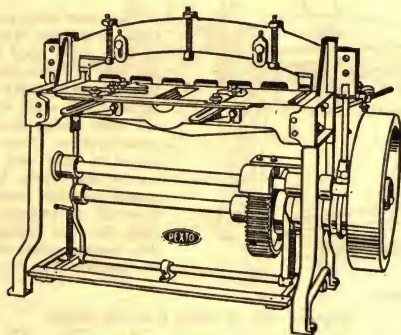
Hand Dolly



No. 947

Size face, 5 x 5½ in.
Thickness, ⅜ in.

Power Squaring Shears



Capacity—No. 14 Gauge Iron and Lighter

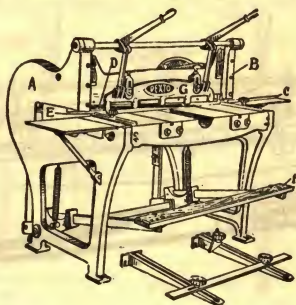
Number	220	221	222	223	224	225
Shipping weight, approx. lbs.	1310	1425	1535	1815	2250	2600
Length cutting blades, inches	30	36	42	52	62	72
Size fly wheel, inches	24x4½	24x4½	24x4½	24x4½	24x4½	24x4½
Weight fly wheel, lbs.	225	225	225	225	225	225
Speed fly wheel, R.P.M.	200	200	200	200	200	200
Ratio of gearing	4:1	4:1	4:1	4:1	4:1	4:1
Horsepower required, maximum	2	2	2	3	3	4
Length long front arms, inches	25¼	25¼	25¼	25¼	25¼	25¼
Length rear gauge arms, inches	30	30	30	30	30	30
Price	\$_____	\$_____	\$_____	\$_____	\$_____	\$_____
Price extra cutting blades, per pair	_____	_____	_____	_____	_____	_____
Extra for crating	_____	_____	_____	_____	_____	_____
Extra for boxing	_____	_____	_____	_____	_____	_____

Shipped on skids regularly.

NOTE—Furnished complete with hold-down attachment, one pair long front arms and complete gauge equipment. Nos. 224 and 225 have center leg and two balance wheels. Cutting blades run about one inch over size listed.

Where a large variety of work in which the lighter and heavier gauges of iron are used these Shears will give maximum good service. They are up to the minute in design and substantially constructed. These Shears are easy running and no important improvements have been overlooked for making them the best Shears in this type that the market affords.

Gap Squaring Shears



Capacity—No. 16 Gauge Iron and Lighter

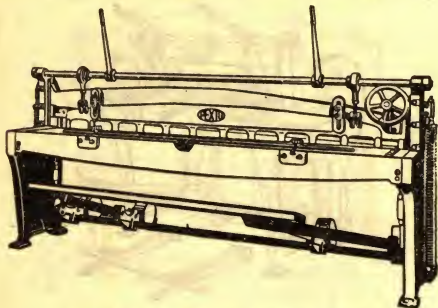
Number	XC 36	XC 42	XC 52
Shipping weight	approximately, lbs. 1600	1700	1900
Length cutting blades	inches 36	42	52
Depth gap in housings	inches 18	18	18
Length front arms	inches 26½	26½	26½
Length rear gauge arms	inches 24	24	24
Width bed	inches 14	14	14
Price	\$.....	\$.....	\$.....
Price for extra blades	per pair .....	.....	.....
Extra for crating or boxing .....	.....	.....	.....

Shipped regularly on skids.

NOTE—Furnished with hold-down attachment, side shelf, slitting gauge, one pair front arms and complete gauge equipment. Cutting blades run about one inch over size listed.

These new patterns embody every improvement for a well-balanced, easy-operating shears. Housings (A) and (B) have a gap of 18 inches for permitting the cutting of sheets from ½ inch to the full depth of gap in housings. The slitting gauge (C) facilitates the slitting of sheets of longer length than the cutting blades (D) and (E). The first cut made, the slitting gauge (C) secures proper alignment of the successive cuts. The treadle (F) is steel and extensible. The lever hold-down (G) presses the sheet with security for insuring an accurate and clean cut. Used as a regular squaring shears, they will cross-cut sheets at any point desired and of full width, according to the length of shears used.

Southington Long-Length Squaring Shears



Capacity—No. 18 Gauge Iron and Lighter

Number	YB-96
Length for sheets .....width inches	96
Width of bed plate .....inches	16
Length of rear gauge .....inches	96
Length of rear gauge arms .....inches	32
Movement of rear gauge.....inches	0 to 20
Length of front gauge arms .....inches	28½
Shipping weight .....approx. lbs.	3050

Shipped on skids regularly.

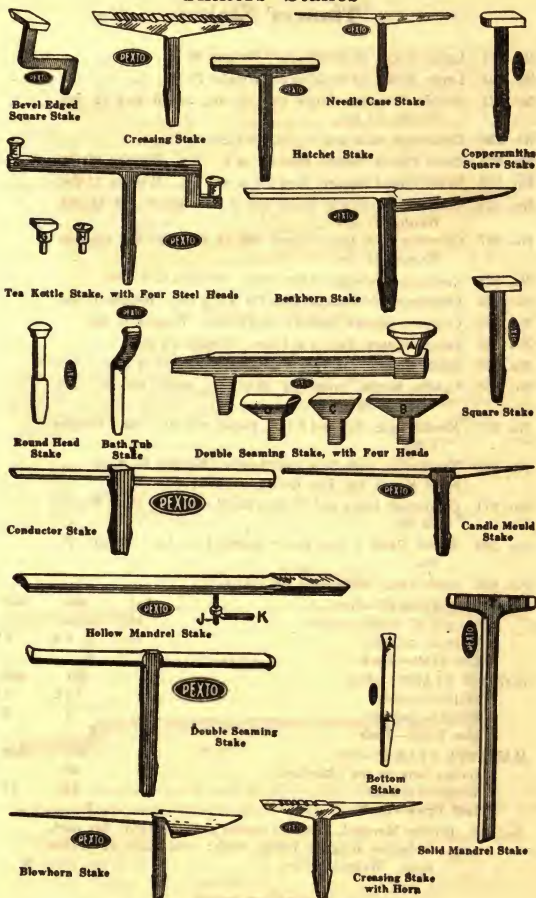
NOTE—Furnished with hold-down attachment, one pair of long front arms and complete screw gauge equipment.

The trained eye of the sheet metal mechanic will see in these new patterns something different and as including many valuable features that heretofore have been lacking in long-length Squaring Shears. A rear gauge moving by means of long screws and bevel gears is not new, but this is the first shears of its kind ever introduced where adjustment of a rear screw gauge is made from the front of the machine through simply turning a hand wheel, as seen at the right of machine in cut. The hold-down attachment is actuated by means of an eccentric and through conveniently placed hand levers. This type of hold-down attachment finds its movement by hand and is independent of the movement of the gate which holds the upper cutting knife and may be depended upon as positive. The treadle is of steel and extensible with the tread so arranged to prevent operation of treadle at the extreme end of the shears, thereby eliminating any possible twisting of the gate when cutting heavy sheets, as can easily occur on long shears when applying the old idea of running the tread full length of machine.

It will cut up to its full rated capacity full length and with the least exertion as long as the cutting blades are kept in good condition and well oiled.

A shears that is in a class by itself—IT HAS NO EQUAL.

Tinners' Stakes



WRITE FOR PRICES

Tinnners' Stakes

No. 901	Large Stake, or Beakhorn. Weighs 46 lbs.	\$	_____
No. 904	Large Stake, or Beakhorn. Weighs 27 lbs.	_____	
No. 921	Double Seaming, large end 17 ins., small end 12 ins. Weighs 37 lbs.	_____	
No. 930	Conductor, each end 14 ins. Weighs 25 lbs.	_____	
No. 931	Bevel Edged Square, face 3 x 5 ins. Weighs 16 lbs.	_____	
No. 932	Bevel Edged Square, face 2½ x 4½ ins. Weighs 14 lbs.	_____	
No. 925	Common Blowhorn, large end 9 ins., small end 18 ins. Weighs 14 lbs.	_____	
No. 927	Creasing with Horn, round end 12 ins., flat end 6½ ins. Weighs 12 lbs.	_____	
No. 928	Common Creasing, 15 ins. long. Weighs 11½ lbs.	_____	
No. 935	Coppersmiths' Square, face 2¾ x 4½ ins. Weighs 11 lbs.	_____	
No. 936	Common Square, face 2¾ x 4½ ins. Weighs 11 lbs.	_____	
No. 938	Large Square, face 3 x 5 ins. Weighs 14 lbs.	_____	
No. 939	Small Square, face 1¾ x 2½ ins. Weighs 3 lbs.	_____	
No. 956	Candle Mould, long end 18½ ins., small end 9½ ins. Weighs 7½ lbs.	_____	
No. 957	Needle Case, flat end 8 ins., round end 10½ ins. Weighs 4 lbs.	_____	
No. 958	Tea Kettle, with four steel heads. Weighs 75 lbs. Steel Heads for Tea Kettle, each	_____	
No. 971	Conductor, large end 15 ins., small end 11½ ins. Weighs 28 lbs.	_____	
No. 965	Round Head, 3 ins., entire length 12½ ins. Weighs 9½ lbs.	_____	
No. 966	Bath Tub. Weighs 11 lbs.	_____	
HATCHET STAKES—Nos.			
	Length of blade—Inches	941 943 944	
	Weight—pounds	16 13 11	
	Weight—pounds	14 8½ 6½	
	List Price—Each	\$	_____
BOTTOM STAKES—Nos.			
	Width—Inches	951 953	
	Width—Inches	1¾ 1¼	
	Weight—pounds	3 2	
	List Price—Each	\$	_____
MANDREL STAKES—Nos.			
	Inches long to the Standard	967 968	
	Weight—pounds	30 ..	
	Weight—pounds	34 47	
	List Price—Each	\$	_____
No. 910	Hollow Mandrel, 3 feet, 4 inches entire length; flat part, 9 inches long, 6 inches wide; oval part 31 inches long. Weight 60 lbs.	\$	_____

WRITE FOR PRICES

United States Standard Sheet Gage



This Gage takes in sizes from No. 0 to No. 36. The Gage numbers are those of the U. S. Standard Gage for Sheet and Plate Iron and Steel, adopted by Congress, March 3, 1893.

Size of Gage is approximately $3\frac{1}{4}$ inches in diameter by $\frac{1}{8}$ inch thick.

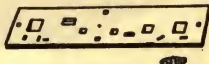
The decimal equivalents of each number are stamped on the back.

Each Gage is carefully tested after hardening.

No. 283 each \$.....

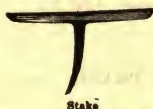
Bench Plates

Bench Plates with polished surface adapted for screwing to a bench and holding stakes and bench shears.



		Net Weight	Price
No. 980	Bench Plate, 48 x 12 inches....	85 pounds	\$.....
No. 981	Bench Plate, 37 $\frac{1}{2}$ x 8 inches....	46 pounds	.....
No. 982	Bench Plate, 30 x 8 inches....	31 pounds	.....

Slaters' Tools



Stake



Ripper



Hammer

The Hammers are forged from one solid piece of steel, finely polished and tempered, and the ripper blade is cut from solid steel.

Slaters' Rippers	each, \$.....
Slaters' Hammers	each,
Slaters' Stake, not graduated	each,
Set of Slaters' Tools (Ripper, Hammer and Stake) ....	.....

Chicago Steel Cornice Brakes



No. 3 CHICAGO STEEL CORNICE BRAKE

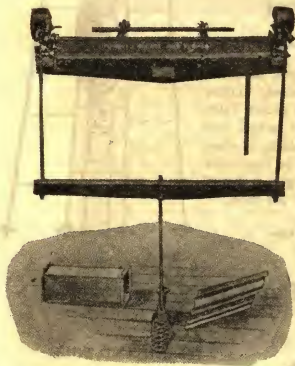
Length of forming edge, 8 feet 1 inch. Adapted for moderately heavy and also light bending and cornice work. As small as 1 inch and larger edge can be bent on No. 16 gauge. Weight 1,500 lbs. Angle extensions and formers included. List, \$.....

No. 4 CHICAGO STEEL CORNICE BRAKE

Length of forming edge, 8 feet 1 inch. Suitable for cornice and other light work, as well as $\frac{3}{4}$ inch and more, bends on No. 18 gauge. Steel angle bar is supplied together with set of formers. Weight 1,000 lbs. List, \$.....

Note—In addition to the sizes mentioned above we can furnish a style brake to take care of most any requirement. Operated by hand or power.

Improved Square Pipe Former and Cornice Brake



The Improved Square Pipe Former and Cornice Brake will form square pipe 2 inches and larger, in 30-inch lengths, perfectly straight and square. By the use of the gauge attachments it is possible to make as many bends as required without first laying off the sheet.

Grooves are provided in the bed plate and folding leaf for the flanges of double seamed pipe, in 20 and 28-inch lengths.

The drop leaf enables the cornice worker to make all styles of moulding and will be found a very valuable machine for short work.

Capacity, No. 24 Iron and lighter, 30 and 36 inches wide.

Price..... \$.....

Union Corner Bead

For Plaster Corner

Length—6, 7, 8, 9 and 10 feet, galvanized
Per foot..... \$.....

This Bead is double, it makes a first-class clinch and is easy to put on. None better on the market.

State length and depth of ground wanted.

Tin Caps for Roofing

Price per pound.....\$.....

Price per 100 pounds.

Price per pound, full
barrel \$.....

One pound contains approxi-
mately 200 Caps

A barrel contains about 300
pounds.



Union.



Danzer's Folding Roof Ladder

Just the thing for tinner, slaters, painters, repairmen, etc. The most convenient ladder ever made for roofers. A 20-foot ladder folds as shown to a size $8\frac{1}{2} \times 14 \times 14$ inches, and weighs 1 $\frac{1}{2}$ pounds to the foot. Made of steel with hard wood crosspieces. Can be shortened to any length. Made in any length from 16 feet up in even feet. Price, \$1.00 per foot.

Discount.....Per Cent.



Roofing Paint Brushes



HAND AND POLE

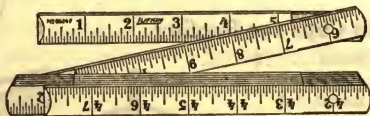
Our stock of Paint Brushes includes brushes of all types, sizes and quality.

A brush to meet all requirements.

PRICES UPON REQUEST

Lufkin Folding Rules

SPRING JOINT

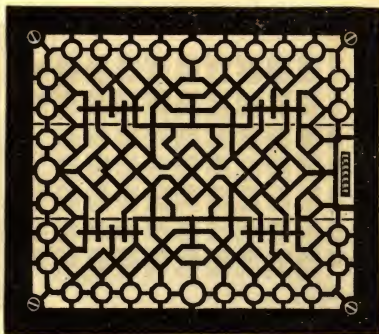


This rule is the best on the market. Light, flexible, and has a special brass joint that is practically unbreakable.

5 feeteach \$.....

6 feeteach

Standard Design



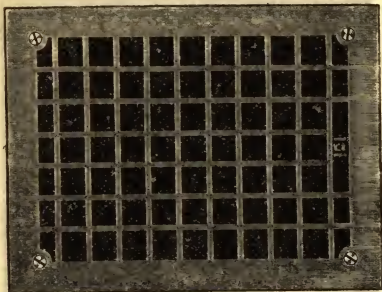
REGISTERS AND FACES

Made in following sizes:

4 x 6	6 x 9	8 x 15	10 x 10	12 x 51	18 x 27	22 x 28
4 x 8	6 x 10	8 x 16	10 x 12		18 x 30	22 x 30
4 x 10	6 x 12	8 x 18	10 x 14		18 x 36	22 x 32
4 x 12	6 x 14	8 x 21	10 x 16	14 x 14		
4 x 13	6 x 16	8 x 24	10 x 18	14 x 15		
4 x 15	6 x 18	8 x 27	10 x 20	14 x 16	20 x 20	24 x 24
4 x 18	6 x 20	8 x 30	10 x 24	14 x 18	20 x 22	24 x 27
4 x 21	6 x 22			14 x 20	20 x 24	24 x 30
4 x 24	6 x 24			14 x 22	20 x 26	24 x 32
	6 x 28		11 x 17		20 x 28	24 x 36
	6 x 30	9 x 9	11 x 18	15 x 25	20 x 30	24 x 45
5 x 8	6 x 32	9 x 12	11 x 20	15 x 30	20 x 32	
5 x 9		9 x 13		15 x 34	20 x 36	
5 x 10		9 x 14				27 x 27
5 x 11	7 x 7	9 x 15	12 x 12	16 x 16		27 x 38
5 x 12	7 x 10	9 x 16	12 x 14	16 x 18	21 x 21	
5 x 13	7 x 12	9 x 17	12 x 15	16 x 20	21 x 25	28 x 28
5 x 14	7 x 14	9 x 18	12 x 16	16 x 22	21 x 29	28 x 30
5 x 15	7 x 15	9 x 19	12 x 17	16 x 24	21 x 33	28 x 32
5 x 16		9 x 20	12 x 18	16 x 28	21 x 37	
5 x 17		9 x 22	12 x 19	16 x 32	21 x 39	
5 x 18	8 x 8	9 x 24	12 x 20			30 x 30
	8 x 10	9 x 25	12 x 24			30 x 36
	8 x 12	9 x 26	12 x 30	18 x 18	22 x 22	30 x 42
6 x 6	8 x 13	9 x 28	12 x 32	18 x 21	22 x 24	30 x 48
6 x 8	8 x 14	9 x 30	12 x 36	18 x 24	22 x 26	

PRICES, SEE PAGES 177 TO 184

Plain Lattice Design



PLAIN LATTICE REGISTERS AND FACES

Made in following sizes:

4 x 6	6 x 9	8 x 15	10 x 10	12 x 51	18 x 24	24 x 32
4 x 8	6 x 10	8 x 16	10 x 12		18 x 27	24 x 36
4 x 10	6 x 12	8 x 18	10 x 14	14 x 14	18 x 30	24 x 45
4 x 12	6 x 14	8 x 21	10 x 16	14 x 16	18 x 36	24 x 54
4 x 13	6 x 16	8 x 24	10 x 18	14 x 18		
4 x 15	6 x 18	8 x 27	10 x 20	14 x 20	20 x 20	27 x 27
4 x 18	6 x 20	8 x 30	10 x 24	14 x 22	20 x 22	27 x 38
4 x 21	6 x 22			14 x 24	20 x 24	
4 x 24	6 x 24				20 x 26	28 x 28
	6 x 28	9 x 9	11 x 17		20 x 28	28 x 30
5 x 8	6 x 30	9 x 12	11 x 18	15 x 25	20 x 30	28 x 32
5 x 9	6 x 32	9 x 13	11 x 20	15 x 30	20 x 32	
5 x 10		9 x 14		15 x 34		
5 x 11	7 x 7	9 x 15	12 x 12			30 x 30
5 x 12	7 x 10	9 x 16	12 x 14	16 x 16	21 x 21	30 x 36
5 x 13	7 x 12	9 x 17	12 x 15	16 x 18	21 x 25	30 x 42
5 x 14	7 x 14	9 x 18	12 x 16	16 x 20	21 x 29	30 x 48
5 x 15	7 x 15	9 x 19	12 x 17	16 x 22	21 x 33	
5 x 16		9 x 20	12 x 18	16 x 24	21 x 37	36 x 36
5 x 17		9 x 22	12 x 19	16 x 28	21 x 39	36 x 40
5 x 18	8 x 8	9 x 24	12 x 20	16 x 32		
	8 x 10	9 x 25	12 x 24	16 x 48		
	8 x 12	9 x 26	12 x 30		24 x 24	38 x 38
6 x 6	8 x 13	9 x 28	12 x 32	18 x 18	24 x 27	38 x 40
6 x 8	8 x 14		12 x 36	18 x 21	24 x 30	38 x 42

Registers, Faces, Borders

JAPPANED—BLACK

Size of Opening	Register, Vertical Wheel	Register Face	Floor Border	Size of Opening	Register, Vertical Wheel	Register Face	Floor Border
4 x 6	\$1.40	\$0.55	\$1.15	8 x 8	\$1.60	\$1.05	\$1.20
4 x 8	1.50	.60	1.15	8 x 10	1.65	1.10	1.25
4 x 10	1.55	.75	1.15	8 x 12	1.90	1.30	1.50
4 x 12	1.80	.95	1.35	8 x 13	2.75	1.85	1.85
4 x 13	2.50	1.10	1.75	8 x 14	3.00	2.00	2.00
4 x 15	3.00	1.20	1.90	8 x 15	3.80	2.60	2.60
4 x 18	4.00	1.30	2.75	8 x 16	4.50	2.70	2.70
4 x 21	5.00	2.25	3.15	8 x 18	6.60	3.50	3.50
4 x 24	6.00	2.75	3.75	8 x 21	9.00	4.00	4.00
				8 x 24	11.25	4.70	4.70
				8 x 27	13.60	5.40	5.40
				8 x 30	14.70	6.30	6.30
5 x 8	1.55	.90	1.15				
5 x 9	1.55	1.00	1.20	9 x 9	2.00	1.40	1.60
5 x 10	1.60	1.05	1.20	9 x 12	2.10	1.45	1.65
5 x 11	1.75	1.10	1.30	9 x 13	2.95	2.00	2.00
5 x 12	1.80	1.20	1.40	9 x 14	3.10	2.15	2.15
5 x 13	2.60	1.35	1.80	9 x 15	3.95	2.65	2.65
5 x 14	2.80	1.50	1.90	9 x 16	4.70	2.70	2.70
5 x 15	3.60	1.65	2.00	9 x 17	5.95	3.25	3.25
5 x 16	3.90	1.80	2.60	9 x 18	6.65	3.60	3.60
5 x 17	4.20	2.00	2.70	9 x 19	7.40	3.95	3.95
5 x 18	5.25	2.10	3.20	9 x 20	8.75	4.30	4.30
				9 x 22	10.35	4.50	4.50
6 x 6	1.50	.90	1.15	9 x 24	12.00	5.30	5.30
6 x 8	1.55	1.00	1.15	9 x 25	14.25	6.00	6.00
6 x 9	1.60	1.05	1.20	9 x 26	15.25	6.35	6.25
6 x 10	1.60	1.05	1.20	9 x 28	16.35	6.80	6.50
6 x 12	1.85	1.25	1.45	9 x 30	17.50	7.10	7.10
6 x 14	2.85	1.65	1.90				
6 x 16	4.00	2.00	2.70	10 x 10	2.35	1.65	1.70
6 x 18	5.20	2.25	3.25	10 x 12	2.40	1.70	1.75
6 x 20	6.00	2.50	3.50	10 x 14	3.15	2.20	2.20
6 x 22	7.00	3.00	3.95	10 x 16	4.85	2.95	2.95
6 x 24	8.00	3.70	4.50	10 x 18	6.70	3.70	3.70
6 x 28	9.50	4.25	5.40	10 x 20	8.90	4.35	4.35
6 x 30	11.50	4.75	6.00	10 x 24	12.15	5.35	5.35
6 x 32	13.00	5.25	6.50	10 x 30	19.50	8.00	8.00
7 x 7	1.55	1.00	1.20	11 x 17	6.30	3.70	3.70
7 x 10	1.65	1.10	1.25	11 x 18	6.75	3.85	3.95
7 x 12	1.90	1.25	1.50	11 x 20	8.95	4.45	4.45
7 x 14	2.95	1.90	1.90				
7 x 15	3.75	2.55	2.55				

For Ventilators add to list: All sizes up to 14 x 14, \$0.50; 14 x 14 and larger, \$1.00

In ordering Ventilators specify whether for side wall or ceiling

DISCOUNT.....PER CENT.

Registers, Faces, Borders

JAPPANED—BLACK

Size of Opening	Register, Vertical Wheel	Register Face	Floor Border	Size of Opening	Register, Vertical Wheel	Register Face	Floor Border
12 x 12	\$4.00	\$2.70	\$2.70	21 x 21	\$24.50	\$9.75	\$9.75
12 x 14	4.35	2.80	2.80	21 x 25	28.00	11.10	11.10
12 x 15	4.50	2.90	2.90	21 x 29	29.00	11.60	11.60
12 x 16	5.60	3.50	3.50	21 x 33	42.00	17.90	17.90
12 x 17	6.35	3.80	3.80	21 x 37	49.00	21.50	21.50
12 x 18	6.80	3.90	3.90	21 x 39	54.00	24.90	24.90
12 x 19	7.50	4.00	4.00				
12 x 20	9.00	4.50	4.50				
12 x 24	12.25	5.50	5.50	22 x 22	28.50	11.40	11.40
12 x 30	20.00	8.20	8.20	22 x 24	29.50	11.80	11.80
12 x 32	24.50	9.75	9.75	22 x 26	31.00	13.10	13.10
12 x 36	26.75	10.25	10.25	22 x 28	33.90	13.90	13.90
				22 x 30	36.00	16.00	16.00
14 x 14	7.90	4.05	4.05	22 x 32	42.00	17.50	17.50
14 x 15	8.25	4.20	4.20				
14 x 16	8.50	4.30	4.30				
14 x 18	9.00	4.50	4.50	24 x 24	30.00	12.00	12.00
14 x 20	9.50	4.80	4.80	24 x 27	33.95	14.00	14.00
14 x 22	10.50	5.00	5.00	24 x 30	38.00	17.25	17.25
14 x 48	46.00	20.00	20.00	24 x 32	42.50	18.00	18.00
				24 x 36	50.00	22.00	22.00
15 x 25	17.50	7.10	7.10	24 x 45	67.50	28.50	28.50
15 x 30	27.50	10.75	10.75				
15 x 34	31.75	13.75	13.75				
16 x 16	11.00	5.10	5.10	27 x 27	37.25	17.00	17.00
16 x 18	12.00	5.30	5.30	27 x 38	56.00	25.00	25.00
16 x 20	12.35	6.10	6.10				
16 x 22	14.75	6.70	6.70				
16 x 24	15.00	7.00	7.00	28 x 28	44.00	19.00	19.00
16 x 28	24.60	10.00	10.00	28 x 30	48.50	21.00	21.00
16 x 32	31.00	13.10	13.10	28 x 32	53.00	24.50	24.50
18 x 18	18.50	7.20	7.20				
18 x 21	20.50	7.75	7.75	30 x 30	49.00	21.50	21.50
18 x 24	21.50	8.35	8.35	30 x 36	67.50	28.50	28.50
18 x 27	27.50	10.75	10.75	30 x 42	77.50	33.00	29.50
18 x 30	31.25	13.25	13.25	30 x 48	95.00	39.00	31.00
18 x 36	38.00	17.25	17.25				
20 x 20	19.75	8.00	8.00	36 x 36	80.00	35.00	29.50
20 x 22	21.60	8.40	8.40	36 x 40	105.00	44.00	32.10
20 x 24	22.00	8.60	8.60				
20 x 26	23.50	9.50	9.50				
20 x 28	28.90	11.50	11.50	38 x 38	100.00	43.50	32.00
20 x 30	33.50	13.50	13.50	38 x 40	112.00	46.00	34.00
20 x 32	37.50	17.10	17.10	38 x 42	120.00	50.00	36.00
20 x 36	43.00	18.50	18.50				

For Ventilators add to list; All sizes up to 14 x 14, \$0.50; 14 x 14 and larger, \$1.00

DISCOUNT..... PER CENT.

Registers, Faces, Borders

JAPANNED—WHITE

Size of Opening	Register, Vertical Wheel	Register Face	Size of Opening	Register, Vertical Wheel	Register Face
4 x 6	\$1.70	\$0.85	8 x 8	\$1.95	\$1.40
4 x 8	1.80	.90	8 x 10	2.00	1.45
4 x 10	1.90	1.10	8 x 12	2.30	1.70
4 x 12	2.20	1.35	8 x 13	3.30	2.40
4 x 13	3.00	1.50	8 x 14	3.60	2.60
4 x 15	3.60	1.80	8 x 15	4.55	3.35
4 x 18	4.65	1.95	8 x 16	5.40	3.60
4 x 21	6.00	3.25	8 x 18	7.90	4.80
4 x 24	7.00	3.75	8 x 21	10.80	5.80
			8 x 24	12.40	6.00
			8 x 27	15.00	6.80
			8 x 30	16.30	7.90
5 x 8	1.90	1.25			
5 x 9	1.90	1.30	9 x 9	2.40	1.80
5 x 10	1.95	1.40	9 x 12	2.55	1.90
5 x 11	2.15	1.50	9 x 13	3.55	2.55
5 x 12	2.25	1.60	9 x 14	3.70	2.75
5 x 13	3.10	1.85	9 x 15	4.75	3.45
5 x 14	3.40	2.00	9 x 16	5.65	3.65
5 x 15	4.30	2.35	9 x 17	7.15	4.65
5 x 16	4.65	2.55	9 x 18	8.00	4.95
5 x 17	5.00	2.80	9 x 19	8.90	5.40
5 x 18	6.20	3.15	9 x 20	10.25	5.65
			9 x 22	11.50	6.15
6 x 6	1.80	1.20	9 x 24	13.20	6.50
6 x 8	1.85	1.30	9 x 25	15.65	7.40
6 x 9	1.90	1.35	9 x 26	16.75	7.85
6 x 10	1.95	1.40	9 x 28	18.00	8.45
6 x 12	2.25	1.60	9 x 30	19.25	8.85
6 x 14	3.45	2.10			
6 x 16	4.80	2.80	10 x 10	2.85	2.15
6 x 18	6.25	3.30	10 x 12	2.90	2.20
6 x 20	7.20	3.70	10 x 14	3.80	2.85
6 x 22	8.40	4.40	10 x 16	5.85	3.95
6 x 24	9.60	5.30	10 x 18	8.05	5.05
6 x 28	11.00	5.75	10 x 20	10.50	5.75
6 x 30	13.00	6.25	10 x 24	13.40	6.60
6 x 32	14.25	6.50	10 x 30	21.45	9.95
7 x 7	1.90	1.35	11 x 17	7.55	4.95
7 x 10	2.00	1.40	11 x 18	8.10	5.30
7 x 12	2.30	1.65	11 x 20	10.75	6.25
7 x 14	3.55	2.50	.....	.....	....
7 x 15	4.50	3.30			

For Ventilators add to list: All sizes up to 14 x 14, \$0.50; 14 x 14 and larger, \$1.00

In ordering Ventilators specify whether for side wall or ceiling

DISCOUNT,.....PER CENT.

Registers, Faces, Borders

JAPANNED—WHITE

Size of Opening	Register, Vertical Wheel	Register Face	Size of Opening	Register, Vertical Wheel	Register Face
12 x 12	\$4.80	\$3.50	21 x 21	\$26.95	\$12.20
12 x 14	5.25	3.65	21 x 25	30.80	13.90
12 x 15	5.40	3.80	21 x 29	31.90	14.50
12 x 16	6.70	4.60	21 x 33	46.20	22.10
12 x 17	7.60	5.05	21 x 37	53.90	26.40
12 x 18	8.15	5.25	21 x 39	59.40	30.30
12 x 19	9.00	5.50			
12 x 20	10.80	6.30	22 x 22	31.35	14.25
12 x 24	13.50	6.75	22 x 24	32.45	14.75
12 x 30	22.00	10.20	22 x 26	34.10	16.20
12 x 32	26.95	12.20	22 x 28	37.30	17.30
12 x 36	29.40	12.90	22 x 30	39.60	19.60
			22 x 32	46.20	21.70
14 x 14	9.45	5.60			
14 x 15	9.90	5.85	24 x 24	33.00	15.00
14 x 16	10.20	6.00	24 x 27	37.35	17.40
14 x 18	10.80	6.30	24 x 30	41.80	21.05
14 x 20	11.25	6.40	24 x 32	46.75	22.25
14 x 22	12.00	6.50	24 x 36	55.00	27.00
14 x 48	50.60	24.60	24 x 45	74.25	35.25
15 x 25	19.25	8.85	27 x 27	40.95	20.70
15 x 30	30.25	13.20	27 x 38	61.60	30.60
15 x 34	34.90	16.90			
			28 x 28	48.40	23.40
16 x 16	12.20	6.20	28 x 30	53.35	25.85
16 x 18	13.20	6.50	28 x 32	58.30	29.80
16 x 20	13.60	7.35			
16 x 22	16.20	8.15	30 x 30	53.90	26.40
16 x 24	16.50	8.50	30 x 36	74.25	35.25
16 x 28	27.05	12.45	30 x 42	85.25	40.75
16 x 32	34.10	16.20	30 x 48	104.50	48.50
18 x 18	20.35	9.05	36 x 36	88.00	43.00
18 x 21	22.55	9.80	36 x 40	115.50	54.50
18 x 24	23.65	10.50			
18 x 27	30.25	13.50	38 x 38	110.00	53.50
18 x 30	34.35	16.35	38 x 40	123.20	57.20
18 x 36	41.80	21.05	38 x 42	132.00	62.00
20 x 20	21.75	10.00	.....	.....	.....
20 x 22	23.75	10.55	.....	.....	.....
20 x 24	24.20	10.80	.....	.....	.....
20 x 26	25.85	11.85	.....	.....	.....
20 x 28	31.80	14.40	.....	.....	.....
20 x 30	36.85	16.85	.....	.....	.....
20 x 32	41.25	20.85	.....	.....	.....
20 x 36	47.30	22.80	.....	.....	.....

DISCOUNT.....PER CENT.

Registers, Faces, Borders

Bronzed in Gold, Silver or Copper Finish
Also Electro-Plated, Oxidized Copper

Size of Opening	Register, Vertical Wheel	Register Face	Border	Size of Opening	Register, Vertical Wheel	Register Face	Border
4 x 6	\$2.00	\$1.15	\$1.75	8 x 8	\$3.00	\$2.45	\$2.60
4 x 8	2.20	1.30	1.85	8 x 10	3.15	2.60	2.75
4 x 10	2.40	1.60	2.00	8 x 12	3.65	3.05	3.25
4 x 12	2.80	2.15	2.55	8 x 13	4.75	3.85	3.85
4 x 13	3.50	2.60	3.25	8 x 14	5.10	3.95	3.95
4 x 15	4.00	2.70	3.40	8 x 15	6.00	4.80	4.80
4 x 18	5.00	3.20	4.65	8 x 16	6.75	5.00	5.00
4 x 21	6.50	4.25	5.15	8 x 18	9.40	6.00	6.00
4 x 24	7.50	4.75	5.75	8 x 21	12.50	7.50	7.50
				8 x 24	15.25	8.70	8.70
				8 x 27	17.75	9.55	9.55
				8 x 30	19.50	10.50	10.50
5 x 8	2.75	2.10	2.35				
5 x 9	2.90	2.30	2.50	9 x 9	3.90	3.30	3.50
5 x 10	2.95	2.40	2.55	9 x 12	4.00	3.35	3.55
5 x 11	3.25	2.60	2.80	9 x 13	4.95	4.00	4.00
5 x 12	3.45	2.85	3.00	9 x 14	5.20	4.25	4.25
5 x 13	4.25	3.00	3.45	9 x 15	6.50	4.90	5.20
5 x 14	4.80	3.50	3.90	9 x 16	7.15	5.15	5.30
5 x 15	5.60	3.65	4.00	9 x 17	8.70	6.00	6.00
5 x 16	5.90	3.80	4.60	9 x 18	9.35	6.30	6.30
5 x 17	6.20	4.00	4.70	9 x 19	10.50	7.05	7.05
5 x 18	7.25	4.10	5.20	9 x 20	11.85	7.40	7.40
				9 x 22	13.95	8.10	8.10
6 x 6	2.70	2.10	2.35	9 x 24	16.00	9.30	9.30
6 x 8	2.80	2.25	2.40	9 x 25	18.25	10.00	10.00
6 x 9	2.95	2.40	2.55	9 x 26	19.25	10.25	10.25
6 x 10	3.00	2.45	2.60	9 x 28	21.75	11.90	11.90
6 x 12	3.50	2.90	3.10	9 x 30	22.50	12.10	12.10
6 x 14	4.95	3.75	4.00				
6 x 16	6.00	4.00	4.70	10 x 10	4.35	3.65	3.70
6 x 18	7.00	4.50	5.50	10 x 12	4.40	3.70	3.75
6 x 20	8.20	4.75	5.80	10 x 14	5.25	4.30	4.30
6 x 22	10.00	6.00	6.95	10 x 16	7.20	5.30	5.30
6 x 24	12.00	7.00	7.50	10 x 18	9.45	6.45	6.45
6 x 28	14.50	8.00	9.00	10 x 20	12.00	7.50	7.50
6 x 30	16.50	8.90	10.00	10 x 24	16.25	9.45	9.45
6 x 32	18.00	9.50	10.50				
				11 x 17	8.95	6.40	6.40
7 x 7	2.90	2.35	2.55	11 x 18	9.50	6.70	6.70
7 x 10	3.10	2.55	2.70	11 x 20	12.00	7.50	7.50
7 x 12	3.60	2.95	3.20				
7 x 14	5.00	3.95	3.95				
7 x 15	5.90	4.70	4.70				

NOTE—We can furnish Electro-Plated Registers and Faces in any desired color to match hardware, woodwork and decoration

DISCOUNT.....PER CENT.

Registers, Faces, Borders

Bronzed in Gold, Silver or Copper Finish

Also Electro-Plated, Oxidized Copper

Size of Opening	Register, Vertical Wheel	Register Face	Border	Size of Opening	Register, Vertical Wheel	Register Face	Border
12 x 12	\$6.35	\$5.05	\$5.05	20 x 28	\$37.40	\$20.00	\$20.00
12 x 14	6.85	5.35	5.35	20 x 30	43.00	23.50	23.50
12 x 15	7.00	5.40	5.40	20 x 32	48.50	28.10	26.00
12 x 16	8.25	6.15	6.15	20 x 36	54.00	29.50	28.50
12 x 17	9.00	6.45	6.45				
12 x 18	9.55	6.65	6.65	21 x 21	31.00	16.25	16.25
12 x 19	10.35	6.85	6.85	21 x 25	35.50	18.60	18.60
12 x 20	12.20	7.60	7.60	21 x 29	40.50	22.20	22.20
12 x 24	16.30	9.55	9.55	21 x 33	52.00	29.35	28.35
12 x 30	26.00	14.20	14.20	21 x 37	60.00	35.00	31.65
12 x 32	31.50	16.75	16.75	21 x 39	67.00	38.50	34.50
12 x 36	33.75	17.75	17.75				
				22 x 22	36.50	19.40	19.40
14 x 14	11.00	7.15	7.15	22 x 24	37.90	20.20	20.20
14 x 15	11.25	7.25	7.25	22 x 26	41.00	23.00	23.00
14 x 16	11.50	7.30	7.50	22 x 28	44.00	24.00	24.00
14 x 18	12.00	7.50	7.50	22 x 30	46.50	26.50	25.50
14 x 20	13.00	8.50	8.50	22 x 32	54.00	29.50	28.50
14 x 22	14.50	9.00	9.00				
14 x 48	60.00	35.25	31.65	24 x 24	40.00	22.00	22.00
				24 x 27	45.00	25.00	25.00
15 x 25	23.00	12.60	12.60	24 x 30	50.00	29.25	28.25
15 x 30	33.00	18.00	18.00	24 x 32	55.50	31.00	30.00
15 x 34	41.25	23.25	23.25	24 x 36	65.50	37.50	34.25
				24 x 45	89.50	50.50	40.00
16 x 16	15.00	9.10	9.10				
16 x 18	16.20	9.50	9.50	27 x 27	49.25	29.00	28.00
16 x 20	16.55	10.30	10.30	27 x 38	76.00	45.00	36.00
16 x 22	19.50	11.50	11.50				
16 x 24	20.00	12.00	12.00	28 x 28	57.50	32.50	31.00
16 x 28	30.80	16.20	16.20	28 x 30	61.50	35.50	32.00
16 x 32	38.25	20.35	20.35	28 x 32	68.00	39.50	35.00
18 x 18	23.75	12.45	12.45	30 x 30	65.00	37.00	34.00
18 x 21	26.00	13.25	13.25	30 x 36	90.00	51.00	41.00
18 x 24	27.75	14.60	14.60	30 x 42	102.00	57.50	50.50
18 x 27	35.00	18.25	18.25	30 x 48	124.00	68.00	60.00
18 x 30	38.00	21.00	21.00				
18 x 36	48.50	28.10	26.00	36 x 36	105.00	60.00	54.50
				36 x 40	135.00	74.00	62.10
20 x 20	24.75	13.00	13.00				
20 x 22	27.60	14.40	14.40	38 x 38	130.00	71.00	59.50
20 x 24	28.20	14.80	14.80	38 x 40	142.00	76.00	64.00
20 x 26	32.00	17.50	17.50	38 x 42	155.00	85.00	71.00

DISCOUNT.....PER CENT.

Registers, Faces, Borders

ELECTRO-PLATED

In Brass, Bronze, Copper or Nickel

Size of Opening	Register	Face	Border	Size of Opening	Register	Face	Border
4 x 6	\$2.20	\$1.35	\$2.10	8 x 8	\$3.70	\$3.15	\$3.65
4 x 8	2.40	1.50	2.15	8 x 10	3.85	3.30	3.90
4 x 10	2.60	1.80	2.40	8 x 12	4.40	3.75	4.40
4 x 12	3.10	2.45	3.00	8 x 13	5.75	4.85	5.30
4 x 13	3.80	2.90	3.75	8 x 14	6.20	5.10	5.60
4 x 15	4.30	3.00	4.00	8 x 15	7.00	5.80	6.40
4 x 18	5.40	3.60	5.00	8 x 16	8.00	6.25	7.00
4 x 21	7.00	4.75	6.00	8 x 18	10.70	7.30	8.00
4 x 24	8.10	5.35	7.00	8 x 21	14.00	9.00	9.70
				8 x 24	17.00	10.50	11.10
				8 x 27	19.75	11.50	12.20
				8 x 30	21.60	12.60	13.50
5 x 8	3.00	2.35	2.90				
5 x 9	3.15	2.50	3.10	9 x 9	4.90	4.30	4.75
5 x 10	3.25	2.70	3.25	9 x 12	5.10	4.45	5.00
5 x 11	3.50	2.85	3.50	9 x 13	6.15	5.20	5.70
5 x 12	3.90	3.30	3.75	9 x 14	6.50	5.50	5.95
5 x 13	4.60	3.50	4.00	9 x 15	7.80	6.20	7.00
5 x 14	5.20	3.90	4.50	9 x 16	8.55	6.55	7.10
5 x 15	6.10	4.15	4.90	9 x 17	9.30	7.60	8.00
5 x 16	6.40	4.30	5.60	9 x 18	11.00	7.95	8.40
5 x 17	6.80	4.60	5.80	9 x 19	12.20	8.75	9.15
5 x 18	7.85	4.75	6.30	9 x 20	13.65	9.20	9.70
				9 x 22	16.00	10.15	10.50
6 x 6	3.00	2.40	2.95	9 x 24	18.10	11.40	11.90
6 x 8	3.10	2.50	3.00	9 x 25	20.50	12.25	12.50
6 x 9	3.40	2.85	3.45	9 x 26	21.65	12.65	12.90
6 x 10	3.50	2.95	3.60	9 x 28	24.25	14.40	14.80
6 x 12	4.20	3.60	4.10	9 x 30	25.25	14.80	15.10
6 x 14	5.75	4.50	5.30				
6 x 16	6.90	4.90	6.10	10 x 10	5.35	4.65	5.20
6 x 18	8.00	5.50	7.00	10 x 12	5.50	4.80	5.35
6 x 20	9.30	5.85	7.40	10 x 14	6.55	5.60	6.00
6 x 22	11.25	7.25	8.65	10 x 16	8.60	6.70	7.20
6 x 24	13.30	8.30	9.30	10 x 18	11.00	8.00	8.55
6 x 28	16.00	9.50	11.00	10 x 20	13.80	9.30	9.80
6 x 30	18.25	10.65	12.10	10 x 24	18.50	12.00	12.15
6 x 32	21.00	12.50	12.60				
7 x 7	3.50	2.95	3.55	11 x 17	10.50	8.00	8.60
7 x 10	3.80	3.25	3.80	11 x 18	11.15	8.25	8.95
7 x 12	4.35	3.70	4.35	11 x 20	14.00	9.40	9.80
7 x 14	6.10	5.00	5.50	.....	.....	.....	.....
7 x 15	6.90	5.70	6.30				

DISCOUNT.....PER CENT.

Registers, Faces, Borders

ELECTRO-PLATED

In Brass, Bronze, Copper or Nickel

Size of Opening	Register	Face	Border	Size of Opening	Register	Face	Border
12 x 14	\$8.25	\$6.75	\$7.35	20 x 28	\$45.50	\$30.00	\$24.50
12 x 15	8.50	6.90	7.60	20 x 30	49.00	32.50	26.00
12 x 16	9.75	7.65	8.25	20 x 32	52.00	34.00	27.50
12 x 17	10.60	8.05	8.65	20 x 36	59.00	39.00	31.50
12 x 18	11.25	8.35	9.00				
12 x 19	12.25	8.75	9.25	21 x 21	37.00	24.75	21.00
12 x 20	14.10	9.50	9.90	21 x 25	44.00	29.00	23.00
12 x 24	18.60	12.10	12.25	21 x 29	52.00	34.00	27.50
12 x 30	29.00	18.00	17.00	21 x 37	65.00	43.50	33.50
12 x 32	34.50	20.00	20.00	21 x 39	74.00	50.00	36.50
12 x 36	36.25	23.25	21.50				
14 x 14	14.30	9.60	10.00	22 x 22	41.00	27.00	21.75
14 x 15	15.30	10.00	10.50	22 x 24	44.00	29.00	23.00
14 x 16	16.50	11.00	11.00	22 x 26	48.00	32.00	25.50
14 x 18	18.50	12.00	12.15	22 x 28	52.00	34.00	27.50
14 x 20	20.50	13.00	12.75	22 x 30	55.00	36.50	28.75
14 x 22	22.50	14.50	13.50	22 x 32	59.00	39.00	31.50
14 x 48	69.50	46.50	35.75				
15 x 25	31.00	20.00	18.50	24 x 24	49.00	32.50	26.00
15 x 30	37.50	25.00	21.60	24 x 27	56.00	37.00	29.00
15 x 34	46.00	30.50	25.00	24 x 30	62.00	41.50	32.00
				24 x 32	66.00	44.50	34.00
16 x 16	19.75	12.80	12.50	24 x 36	74.00	50.30	36.50
16 x 18	22.25	14.25	13.25	24 x 45	92.00	63.00	45.00
16 x 20	24.60	16.00	14.00				
16 x 22	28.00	18.00	16.00	27 x 27	66.00	44.50	34.00
16 x 24	29.60	19.25	17.10	27 x 38	94.00	64.00	46.00
16 x 28	35.00	22.75	18.80				
16 x 32	42.00	27.50	22.00	28 x 28	72.00	49.00	36.40
				28 x 30	76.00	52.50	37.00
18 x 18	26.00	16.50	15.00	28 x 32	84.00	55.00	40.50
18 x 21	30.00	19.00	18.00				
18 x 24	34.25	22.50	18.75	30 x 30	85.00	56.00	41.00
18 x 27	39.00	25.50	21.70	30 x 36	102.00	70.00	48.00
18 x 30	43.00	28.50	22.70	30 x 42	119.00	87.00	60.00
18 x 36	54.00	36.00	28.00	30 x 48	136.00	94.00	72.00
20 x 20	32.40	21.20	18.10	36 x 36	127.00	83.00	66.00
20 x 22	35.70	23.50	19.00	36 x 40	142.00	95.00	76.00
20 x 24	39.00	25.50	21.70	36 x 48	173.00	103.00	87.00
20 x 26	42.00	27.50	22.00				
				38 x 40	153.00	97.00	81.50

DISCOUNT..... PER CENT.

Convex Square Registers

STANDARD DESIGN



FOR SHALLOW FLUES AND THIN PARTITIONS

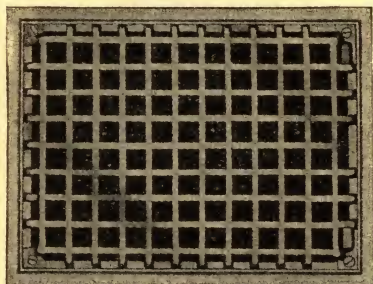
(See also opposite page)

Size of Opening	Register Lists				White Porcelain Enamel	Solid Brass or Bronze Metal
	Japanned Black	Japanned White	Electro-Plated			
			Bronze, Brass, Nickel	Oxidized Copper		
4 x 8	\$2.00	\$2.40	\$3.30	\$2.70	\$4.30	\$4.40
6 x 8	2.20	2.65	4.20	3.45	5.70	5.80
6 x 10	2.30	2.95	4.45	3.70	6.65	6.95
6 x 12	2.65	3.20	5.55	4.30	8.15	8.50
7 x 10	2.35	2.85	5.00	3.85	7.80	8.10
8 x 8	2.35	2.85	5.00	3.80	7.80	8.10
8 x 10	2.40	2.90	5.10	3.90	8.15	8.50
8 x 12	2.70	3.25	5.75	4.45	9.65	10.20
8 x 15	4.50	5.40	8.60	6.70	11.90	12.50
8 x 18	7.25	8.70	12.00	10.00	13.70	14.45
9 x 9	2.90	3.50	6.40	4.80	8.40	8.80
9 x 12	3.00	3.60	6.60	4.90	10.60	11.25
9 x 14	3.90	4.70	8.10	6.10	12.20	12.90
10 x 10	3.45	4.15	7.15	5.45	10.00	10.65
10 x 12	3.75	4.50	7.60	5.75	11.90	12.50
10 x 14	5.00	6.00	9.40	7.10	14.35	15.20
10 x 16	7.25	8.70	12.45	9.60	17.00	18.10
12 x 12	7.10	8.55	12.50	9.45	17.10	18.20
12 x 14	7.40	8.90	12.80	9.90	18.35	19.50
12 x 15	7.50	9.00	13.00	10.00	19.30	20.55

DISCOUNT.....PER CENT.

Convex Square Registers

PLAIN LATTICE DESIGN



FOR SHALLOW FLUES AND THIN PARTITIONS

(See also opposite page)

Size of Opening	Register Lists				White Porcelain Enamel	Solid Brass or Bronze Metal
	Japanned Black	Japanned White	Electro-Plated			
			Bronze, Brass, Nickel	Oxidized Copper		
12 x 16	\$8.75	\$10.50	\$15.00	\$11.40	\$21.00	\$22.50
12 x 17	10.00	12.00	15.70	13.20	21.80	23.40
12 x 18	11.20	13.25	16.75	14.50	23.20	24.90
12 x 19	12.50	14.50	18.25	15.90	24.70	26.75
12 x 20	14.50	16.50	21.90	18.00	27.80	29.80
12 x 24	17.50	20.00	27.75	22.00	32.40	34.65
14 x 14	14.00	16.00	20.00	17.50	22.00	23.90
14 x 16	15.00	17.00	22.00	18.60	24.00	26.20
14 x 18	16.00	18.25	24.25	20.00	25.85	27.85
14 x 20	17.00	19.25	25.25	21.25	26.50	28.50
14 x 22	18.00	20.50	28.00	22.75	29.00	31.10
16 x 20	20.00	22.50	31.50	25.00	32.00	34.25
16 x 24	26.00	29.00	38.50	32.00	38.50	41.00
18 x 21	27.00	30.00	41.00	33.00	41.00	44.00
18 x 24	30.00	33.00	44.00	36.00	44.00	48.50
20 x 20	28.50	32.50	43.00	35.50	43.00	47.00
24 x 24	40.00	46.00	60.00	50.00	60.00	70.00

DISCOUNT.....PER CENT.



Convex Circular Top Registers

STANDARD DESIGN

Size of Opening	Japanned		Electro-Plated		Solid Brass or Bronze
	Black	White	Brass, Bronze, or Nickel	Oxidized Copper	
8 x 12	\$2.95	\$3.50	\$6.00	\$4.65	\$10.20
9 x 12	3.30	4.00	7.00	5.20	11.25
10 x 14	5.50	6.50	10.00	7.60	15.20



Circular Top Register

STANDARD DESIGN

Register List

Size of Opening	Japanned		Electro-Plated	
	Black	White	Brass, Bronze, Nickel	Oxidized Copper
7 x 10	\$1.90	\$2.30	\$4.00	\$3.30
8 x 12	2.35	2.80	4.75	4.00
9 x 12	2.65	3.15	5.70	4.75
10 x 14	4.10	4.90	7.25	6.00
11 x 13	6.00	7.00	10.50	8.50

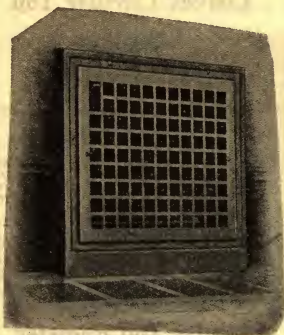
Wall Borders, Circular Top

To Fit Register Size	Japanned Black	Gold Bronzed	Electro-Plated	
			Brass, Bronze, Nickel	Oxidized Copper
7 x 10	\$1.60	\$2.20	\$2.90	\$2.20
8 x 12	2.00	2.60	3.50	2.60
9 x 12	2.20	2.80	3.90	2.80
10 x 14	2.60	3.40	4.60	3.40

Discount.....Per Cent.

Baseboard Registers

Style 900



A two-piece all-steel register made in different sizes and depths to meet all conditions. Made of heavy gauge open hearth sheet steel with operating device that is positive and durable.

The 6½ Style 900 is for first floor use with head 6½ inches deep or 2½ inches deeper than wall stack.

The 6½ Style 900 adds a further ½-inch capacity and is used with a head 3 inches deeper than ordinary wall stack.

This style Register also furnished with 3½, 5½, 7½, 8½ inches depth of head.

List Prices, Style 900—6½-inch Registers

Depth of Flange, 2½ inches

Depth of Flange D	Height to Stack-head Opening F	In Ordering Specify		Black Japan	White Japan	Plated Oxidized Copper	Plated Nickel or Dull Brass
		Depth of Stack-head	Size of Opening				
2¼"	2"	6½"	8 x 10	\$2.00	\$2.35	\$3.50	\$3.85
2¼"	2"	6½"	8 x 12	2.40	2.90	3.95	4.35
2¼"	2"	6½"	8 x 13	2.75	3.25	4.25	4.65
2¼"	2"	6½"	9 x 12	3.00	3.50	4.50	4.90
2¼"	2"	6½"	10 x 12	3.65	4.25	5.40	6.00
2¼"	2"	6½"	10 x 13	4.20	5.00	6.20	7.00

List Prices, Style 900—6½-inch Registers

Depth of Flange, 3 inches

Depth of Flange D	Height to Stack-head Opening F	In Ordering Specify		Black Japan	White Japan	Plated Oxidized Copper	Plated Nickel or Dull Brass
		Depth of Stack-head	Size of Opening				
3"	2½"	6½"	7 x 10	\$2.50	\$3.00	\$3.95	\$4.65
3"	2½"	6½"	7 x 12	3.00	3.60	4.50	5.25
3"	2½"	6½"	8 x 10	2.50	3.00	4.00	4.70
3"	2½"	6½"	8 x 12	3.00	3.60	4.50	5.25
3"	2½"	6½"	8 x 13	3.00	3.60	4.50	5.25
3"	2½"	6½"	9 x 12	3.50	4.20	5.40	6.10
3"	2½"	6½"	10 x 12	3.75	4.35	5.50	6.10
3"	2½"	6½"	10 x 13	4.20	5.00	6.20	7.00
3"	2½"	6½"	10 x 14	4.50	5.25	6.70	7.50

DISCOUNT.....PER CENT.

Round Registers, Faces and Borders



INDIAN DESIGN

Size, Inches	Japanned Black			Japanned White		Gold Bronzed		Electro-Plated Brass, Bronze and Nickel		Electro-Plated Oxidized Copper	
	Register	Face	Border	Register	Face	Register	Border	Register	Border	Register	Border
6	\$1.50	\$0.90	\$1.15	\$1.80	\$1.20	\$2.70	\$2.35	\$3.00	\$2.95	\$2.70	\$2.35
7	1.55	1.00	1.20	1.90	1.35	2.90	2.55	3.50	3.55	2.90	2.55
8	1.60	1.05	1.20	1.95	1.40	3.00	2.60	3.70	3.65	3.00	2.60
9	2.00	1.40	1.60	2.40	1.80	3.90	3.50	4.90	4.75	3.90	3.50
10	2.35	1.65	1.70	2.85	2.15	4.35	3.70	5.35	5.20	4.35	3.70
12	4.00	2.70	2.70	4.80	3.50	6.35	5.05	7.90	7.10	6.35	5.05
14	7.90	4.05	4.05	9.45	5.60	11.00	7.15	14.30	10.00	11.00	7.15
16	11.00	5.10	5.10	12.20	6.20	15.00	9.10	19.75	12.50	15.00	9.10
18	18.50	7.20	7.20	20.35	9.05	23.75	12.45	26.00	15.00	23.75	12.45
20	19.75	8.00	8.00	21.75	10.00	24.75	13.00	32.40	18.10	24.75	13.00
24	30.00	12.00	12.00	33.00	15.00	40.00	22.00	49.00	26.00	40.00	22.00
28	44.00	19.00	19.00	48.40	23.40	57.50	31.00	72.00	36.40	57.50	31.00
30	49.00	21.50	21.50	53.90	26.40	65.00	34.00	85.00	41.00	65.00	34.00
36	80.00	35.00	29.50	88.00	43.00	105.00	54.50	127.00	66.00	105.00	54.50
48	120.00	60.00	.....	.....	.....	.....	.....	.....	.....	.....	.....

For Ventilators add to list: All sizes up to 14 inches, \$0.50; 14 inches and larger, \$1.00

DISCOUNT.....PER CENT.

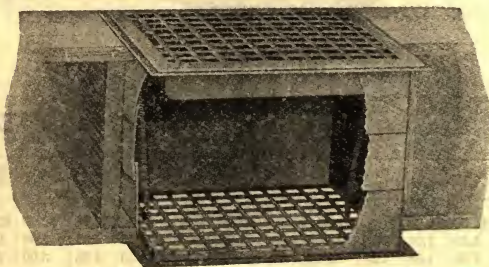
Round Registers with Square Face

Size of Opening	Japanned Black	Japanned White
7 inch	\$2.00	\$2.40
8 inch	2.50	3.00
9 inch	3.10	3.70
10 inch	3.70	4.50
12 inch	5.30	6.35



Adjustable Ventilators

For Admitting to Second Floor Surplus Heat From First Floor



Style 77

Each Ventilator consists of a black floor register, a white ceiling register face and a tin box, which is adjustable from 7 to 12 inches in depth.

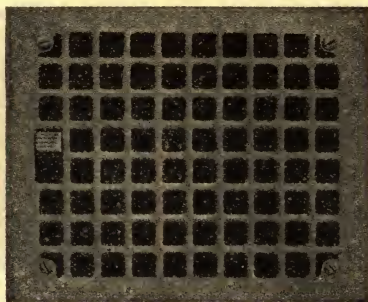
Size of Opening	List Price	Size of Opening	List Price
8 x 10	\$4.40	10 x 14	\$7.60
8 x 12	4.80	12 x 14	10.00
9 x 12	5.40	12 x 15	10.40
10 x 12	6.40	14 x 16	17.00

Round Slate Borders

Inches	Inches	Inches	Inches
6 .....\$0.56	9 .....\$0.84	14 .....\$1.56	20 .....\$3.60
7 ..... .64	10 1.00	16 2.20	24 5.04
8 ..... .72	12 1.28	18 2.56	30 9.00

DISCOUNT PER CENT.

Wrought Steel Registers



Design—Plain Lattice.

Air Capacity—Nearly nine per cent. greater than any other Wrought Steel Register.

Strengthening Devices—Partitions solid and curved, transverse steel braces on all sizes.

Face—Edges bevelled ensuring flush setting.

Register Bottom—Sides bevelled—make setting easy.

Packing—Registers packed in cardboard boxes.

Weights

Size of Register, Inches	Net Weight of Register, Pounds	Size of Register, Inches	Net Weight of Register, Pounds	Size of Register, Inches	Net Weight of Register, Pounds
6 x 8	2½	10 x 12	5¾	14 x 16	10¾
6 x 10	3	10 x 14	6½	14 x 18	10¾
8 x 10	4	12 x 14	7¾	14 x 20	12¼
8 x 12	4½	12 x 15	8¾	14 x 22	13¼
9 x 12	5	12 x 16	9	.....	.....
9 x 14	5¾	12 x 20	10¾	.....	.....

Weights for other sizes can be easily calculated

LIST PRICES SAME AS CAST GOODS

Indicator Handles for Cords

Indicating "Open" or "Shut"

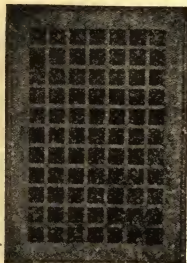
Japanned, Per Pair	Bronzed, Per Pair	Nickel-Plated, Per Pair	Bronze Metal, Per Pair	Cord, Per Yard	No. 00 Safety Chain, Per Yard
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....

Reversible Wafers

Any Register Works Both Ways



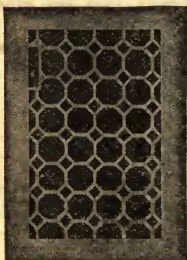
Plain Lattice all wrought steel in horizontal position



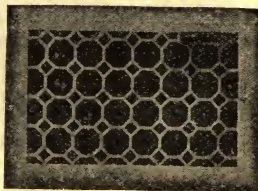
Plain Lattice all wrought steel in vertical position

The Reversible Wafer Register is designed for shallow flues and is only 1 inch deep when closed.

"As Thin as a Wafer"



Moorish Cast Face Steel Frame in vertical position



Moorish Cast Face Steel Frame in horizontal position

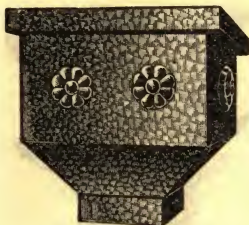
PRICE LIST—(Semi-Steel or All-Steel)

Size of Opening	Japanned Black	Japanned White	Plated Oxidized Copper	Brass, Bronze or Nickel Plated
8 x 10	\$1.65	\$2.00	\$3.15	\$3.85
8 x 12	1.90	2.30	3.65	4.40
9 x 12	2.10	2.55	4.00	5.10
10 x 12	2.40	2.90	4.40	5.50
10 x 14	3.15	3.80	5.25	6.55
12 x 14	4.35	5.25	6.85	8.25
12 x 15	4.50	5.40	7.00	8.50

DISCOUNT.....PER CENT.

Conductor Heads

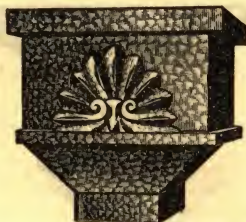
Made of Galvanized Steel, "Armco" Ingot Iron,
"Toncan" Metal and Copper



No. 1	Outlet	Face	Depth	Height
	2" x 3"	11"	6 3/4"	10"
	3" x 4"	12"	7 3/4"	11"

List, \$3.00

Discount..... Per Cent.

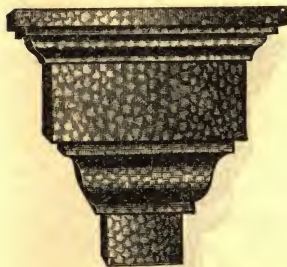


No. 3	Outlet	Face	Depth	Height
	2" x 3"	11"	6 3/4"	10"
	3" x 4"	12"	7 3/4"	11"

List, \$3.50

Discount..... Per Cent.

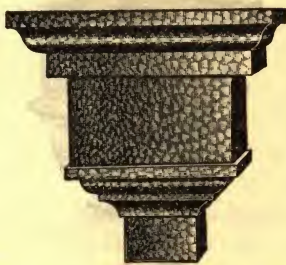
NOTE—All Heads we illustrate can be made with round or square outlets. The dimensions stated are based on 3" and 4" round, 2" x 3" and 3" x 4" square outlets. When ordering always state size and style of outlet wanted.



No. 5	Outlet	Face	Depth	Height
	2" x 3"	13"	7 1/2"	11"
	3" x 4"	14"	8 1/2"	12"

List, \$3.50

Discount..... Per Cent.



No. 7	Outlet	Face	Depth	Height
	2" x 3"	13"	7 1/2"	11"
	3" x 4"	14"	8 1/2"	12"

List, \$3.75

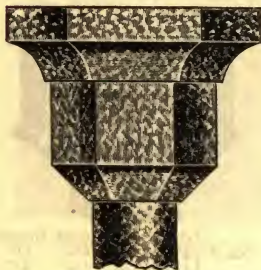
Discount..... Per Cent.

Note—All Conductor Heads are made to order only and are not returnable

PRICES UPON APPLICATION

Conductor Heads

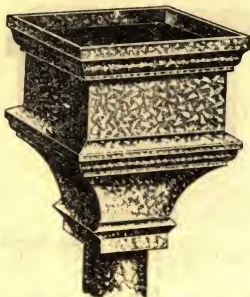
Made of Galvanized Steel, "Armco" Ingot Iron,
"Toncan" Metal and Copper



No. 9	Outlet Face Depth Height			
	3"	12"	7½"	10"
	4"	13"	8"	10½"

List, \$3.00

Discount.....Per Cent.



No. 2	Outlet Face Depth Height			
	3"	12"	7½"	13"
	4"	13"	8½"	14"

List, \$4.50

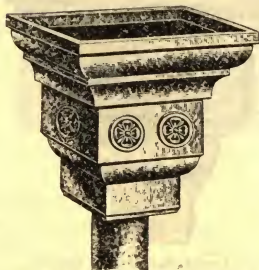
Discount.....Per Cent.



No. 4	Outlet Face Depth Height			
	3"	12"	7½"	13½"
	4"	13"	8½"	14½"

List, \$6.00

Discount.....Per Cent.



No. 12	Outlet Face Depth Height			
	3"	12"	7½"	11"
	4"	13"	8½"	12"

List, \$4.50

Discount.....Per Cent.

SPECIAL HEADS TO ORDER. PRICES QUOTED UPON RECEIPT OF DETAIL.

Conductor Heads

Made of Galvanized Steel, "Armco" Ingot Iron,
"Toncan" Metal and Copper



No. 15	Outlet Face Depth Height			
	2" x 3"	10"	6½"	8"
	3" x 4"	11"	7½"	8"

List, \$2.50



No. 13	Outlet Face Depth Height			
	2" x 3"	10"	6½"	7"
	3" x 4"	11"	7½"	7"

List, \$3.00



No. 11	Outlet Face Depth Height			
	2" x 3"	11"	7"	8½"
	3" x 4"	12"	8"	8½"

List, \$3.00



No. 14	Outlet Face Depth Height			
	2" x 3"	10"	6½"	8"
	3" x 4"	11"	7½"	8"

List, \$2.00

Discount....., Per Cent.

Ornamental Conductor Straps

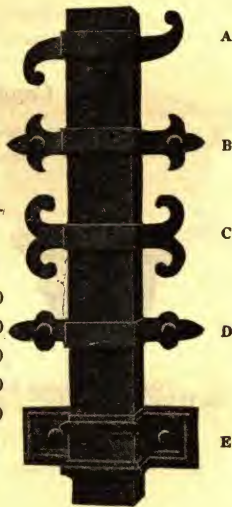
GALVANIZED STEEL, "ARMCO"
INGOT IRON, "TONCAN" METAL
AND COPPER

To fit conductor pipe of the follow-
ing sizes:

	2x3	3x4	4x5	5x6
Style A.....	\$1.20	\$1.20	\$1.30	\$1.40
B.....	.80	.80	.90	1.00
C.....	1.20	1.20	1.30	1.40
D.....	.80	.80	.90	1.00
E.....	1.60	1.70	1.90	2.00

Discount.....Per Cent.

NOTE—MADE TO ORDER ONLY AND NOT
RETURNABLE



Zinc and Copper Balls

IN HALVES

Sizes 1 1½ 2 2½ 3 3½ in.

Zinc, each ...\$0.20 .24 .28 .34 .48 .60

Copper, each... .40 .48 .56 .72 .88 1.12

Sizes 4 5 6 7 8 in.

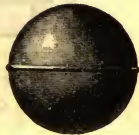
Zinc, each ...\$0.80 1.20 1.80 2.20 2.72

Copper, each.. 1.60 2.40 3.20 4.40 5.20

Sizes 10 12 14 15 18 in.

Zinc, each\$3.60 5.20 10.00 13.00 25.00

Copper, each 7.80 10.00 18.00 26.00 52.00



Discount.....Per Cent.

Galvanized Iron Cornices

Made of Galvanized Steel, "Armco" Iron,
"Toncan" Metal and Copper



No. 1

Height	Projection	Per Foot	8 1/2 in. Bracket	13 in. Bracket
24 inches	12 inches	\$		
30 inches	15 inches			
36 inches	18 inches			



No. 2

Height	Projection	Per Foot	8 1/2 in. Bracket	13 in. Bracket
24 inches	12 inches	\$		
28 inches	14 inches			
30 inches	15 inches			
36 inches	18 inches			

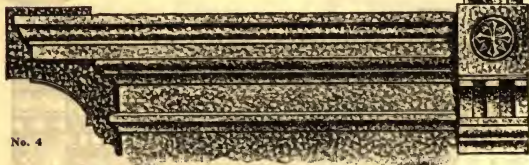


No. 3

Height	Projection	Per Foot	8 1/2 in. Bracket	13 in. Bracket
24 inches	12 inches	\$		
26 inches	13 inches			
28 inches	14 inches			
30 inches	15 inches			
36 inches	18 inches			

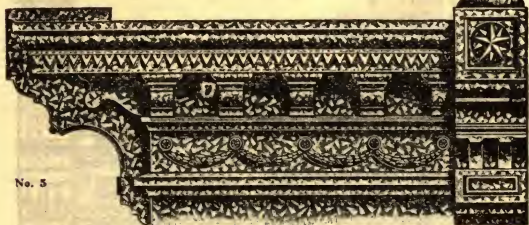
PRICES QUOTED UPON APPLICATION

Estimates Furnished on Special Drawings



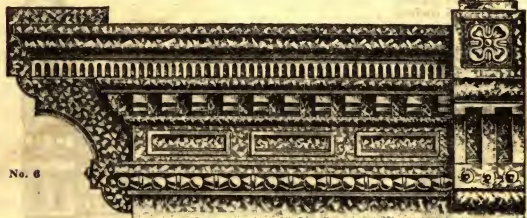
No. 4

Height	Projection	Per Foot	8 1/2 in. Bracket	13 in. Bracket
16 inches	8 inches	\$	_____	_____
20 inches	10 inches		_____	_____
24 inches	12 inches		_____	_____



No. 5

Height	Projection	Per Foot	8 1/2 in. Bracket	13 in. Bracket
30 inches	15 inches	\$	_____	_____
36 inches	18 inches		_____	_____



No. 6

Height	Projection	Per Foot	8 1/2 in. Bracket	13 in. Bracket
36 inches	18 inches	\$	_____	_____
42 inches	21 inches		_____	_____
48 inches	24 inches		_____	_____

PRICES QUOTED UPON APPLICATION

V Angle Ridge Cap

Made of Galvanized Steel, "Armco" Iron,
"Toncan" Metal and Copper



Galvanized Roll Ridging

Steel, "Armco" Iron, "Toncan" Metal and Copper
Unless otherwise specified we always ship 2 inch



LIST PER FOOT—V Angle Ridge Cap and Ridging

Diameter of Roll Inches	Width of Apron Inches	Girth Inches	No. 29	No. 24	No. 27	No. 28	No. 24	
1 1/4	2	7	....	\$0.15	\$0.16	....	\$0.21	....
1 1/2	2	8	....	.17	.18	....	.23	.32
2	2 1/2	10	....	.19	.20	....	.24	.34
2 1/2	2	12	....	.24	.25	....	.31	.40
3	3 1/2	14	....	.30	.32	....	.40	.50

Standard Gauge Steel Is No. 29—Ingot Iron Is No. 28

"Toncan" Metal Is No. 28

Discount.....Per Cent.

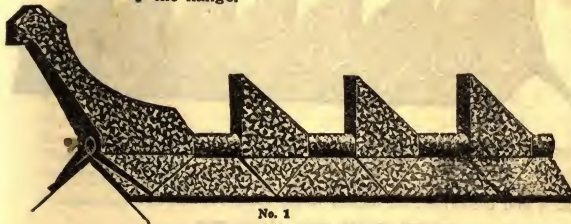
COPPER QUOTED UPON APPLICATION

Cresting Blocks and Finials

Galvanized to fit 2-inch ridge roll. Size 6
inches long, 5 inches high above roll.

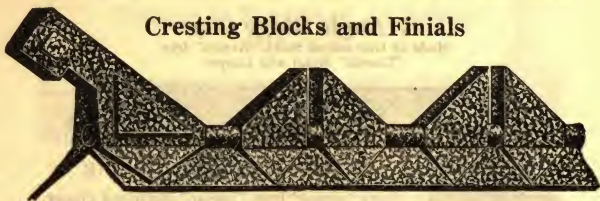
Can be adjusted to make various designs.

They need no soldering; simply nailed through
the flange.



No. 1

Cresting Blocks and Finials



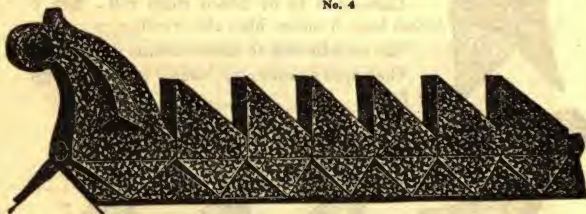
No. 2



No. 3



No. 4



No. 5

Cresting Blocks, per 100.....	\$_____
No. 1 Finial, 13½ inches high, each.....	_____
Nos. 2 and 3 Finials, 11 inches high, each.....	_____
Nos. 4 and 5 Finials, 13 inches high, each.....	_____

PRICES QUOTED UPON APPLICATION

"Little Beauty" Finial

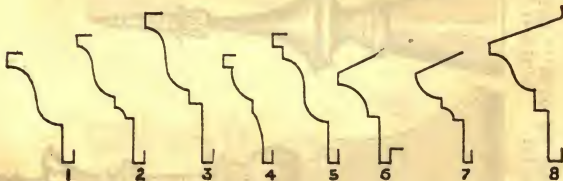


The base is so constructed that this Finial will fit either 1½ inch or 2-inch ridge roll and fit so snugly that soldering is not required. A metal tongue extends down from the base in front, covering the end of the roll, and through which a nail can be driven into the fascia board. It is 9 inches high, 10 inches long at the base.

Style B, price each.....\$1.00

Discount.....Per Cent.






Galvanized Crown Mouldings



Style, No....	1	2	3	4	5	6	7	8
Inches High.	10	12	13	10	12	10½	10½	14
Projection ..	5	7	6½	4½	6	5¼	4¼	6
Girth	16	19	20	15	18	21	19	26
Per Foot ...	\$0.32	\$0.38	\$0.40	\$0.30	\$0.36	\$0.42	\$0.38	\$0.52

Discount.....Per Cent.

Finials

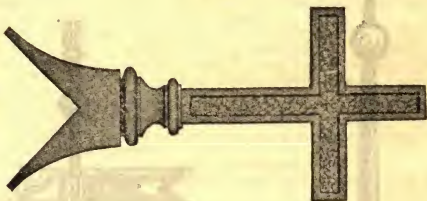
1 1/4 feet High No. 86 . . . \$3.50	
2 feet High No. 88 . . . \$4.50	
2 1/4 feet High No. 90 . . . \$5.50	
3 1/2 feet High No. 100 . . . \$8.00	
4 1/4 feet High No. 108 . . . \$11.00	

Discount Per Cent.

Always state Measurement and Style of Base—whether Base is to be Square, Round or Octagonal—and give Pitch of Roof. Crating charged at cost. When Octagonal Bases are desired add \$1.50 to the list, except Nos. 86, 88 and 90, no charge.

Finials

6 $\frac{3}{4}$ feet High
No. 72 ... \$28.00



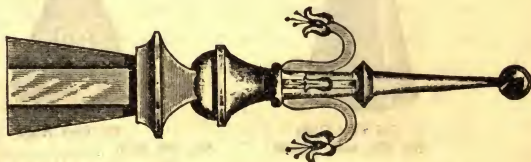
7 $\frac{1}{4}$ feet High
No. 74 ... \$35.00



3 $\frac{1}{2}$ feet High
No. 104 ... \$11.00



4 $\frac{1}{4}$ feet High
No. 114 ... \$14.00



Discount.....Per Cent.

Always state Measurement and Style of Base—whether Base is to be Square, Round or Octagonal—and give Pitch of Roof. Crating charged at cost. When Octagonal Bases are desired add \$1.50 to the list.



5½ Feet High
No. 124. each, \$18.00



8½ Feet High
No. 146, each.....\$36.00
Stem of wrought iron pipe.

Discount.....Per Cent.

When ordering Finials, always state measurements and style of base. When octagonal bases are desired, add \$1.50 to the list.

Brief Business Laws

If a note is lost or stolen it does not release the maker; he must pay it if the consideration for which it was given and the amount can be proven.

Notes bear interest only when so stated.

Principals are responsible for the acts of their agents.

Each individual in a partnership is responsible for the whole amount of the debts of the firm, except in cases of a special partnership. The word "limited" in connection with a firm name indicates that a limitation of responsibility for each member is fixed.

Ignorance of the law excuses no one.

An agreement without consideration of value is void.

A note made on a Sunday is void, also one dated ahead of its issue. It may be dated back at pleasure.

Contracts made on Sunday cannot be enforced.

A note by a minor is void in some States, and in others it is voidable on judicial decision.

A contract made with a minor, or a lunatic, is void.

A note obtained by fraud or from a person in a state of intoxication cannot be collected. It is a fraud to conceal a fraud. Signatures made with a lead pencil are good in law. The acts of one partner bind the rest.

"Value received" is usually written in a note, and should be, but it is not necessary. If not written it is presumed by the law or may be supplied by proof.

No consideration is sufficient in law if it be illegal in its nature.

Checks or drafts must be presented for payment without unreasonable delay.

An indorsee has a right of action against all whose names were on the bill when he received it.

If the letter containing a protest of non-payment be put into the post-office, any miscarriage does not affect the party giving notice.

Notice of protest may be sent either to the place of business or residence of the party notified.

Familiar Facts

To find circumference of a circle multiply diameter by 3.1416.

To find diameter of a circle multiply circumference by .31831.

To find area of a circle multiply square of diameter by .7854.

To find area of a triangle multiply base by $\frac{1}{2}$ perpendicular height.

To find surface of a ball multiply square of diameter by 3.1416.

To find solidity of a sphere multiply cube of diameter by .5236.

To find side of an equal square multiply diameter by .8862.

To find cubic inches in a ball multiply cube of diameter by .5236.

Doubling the diameter of a pipe increases its capacity four times.

A gallon of water (U. S. standard) weighs 8 lbs. $\frac{1}{8}$ oz. and contains 231 cubic inches.

A cubic foot of water contains 7 $\frac{1}{2}$ gallons, 1,728 cubic inches, and weighs 62 $\frac{1}{2}$ pounds.

To find the pressure in pounds per square inch of a column of water multiply the height of the column in feet by .434.

Steam rising from water at its boiling point (212 degrees) has a pressure equal to the atmosphere (14.7 pounds to the square inch).

A standard horse power. The evaporation of 30 pounds of water per hour from a feed water temperature of 100 degrees F. into steam at 70 pounds gauge pressure.

To find capacity of tanks any size; given dimensions of a cylinder in inches, to find its capacity in U. S. gallons: Square the diameter, multiply by the length and by .0034.

To ascertain heating surface in tubular boilers multiply $\frac{3}{4}$ the circumference of boiler by length of boiler in inches and add to it the area of all the tubes.

One-sixth of tensile strength of plate multiplied by thickness of plate and divided by one-half the diameter of boiler gives safe working pressure for tubular boilers. For marine boilers add 20 per cent. for drilled holes.

Weights and Measures

TROY WEIGHT

- 24 grains = 1 pwt.
- 20 pwts. = 1 ounce.
- 12 ounces = 1 pound.

Used for weighing gold, silver and jewels.

APOTHECARIES' WEIGHT

- 20 grains = 1 scruple.
- 3 scruples = 1 dram.
- 8 drams = 1 ounce.
- 12 ounces = 1 pound.

The ounce and pound in this are the same as in Troy weight.

AVOIRDUPOIS WEIGHT

- 27½ grains = 1 dram.
- 16 drams = 1 ounce.
- 16 ounces = 1 pound.
- 25 pounds = 1 quarter.
- 4 quarters = 1 cwt.
- 2,000 lbs. = 1 short ton.
- 2,240 lbs. = 1 long ton.

DRY MEASURE

- 2 pints = 1 quart.
- 8 quarts = 1 peck.
- 4 pecks = 1 bushel.
- 36 bushels = 1 chaldron.

LIQUID MEASURE

- 4 gills = 1 pint.
- 2 pints = 1 quart.
- 4 quarts = 1 gallon.
- 31½ gallons = 1 barrel.
- 2 barrels = 1 hogshead.

TIME MEASURE

- 60 seconds = 1 minute.
- 60 minutes = 1 hour.
- 24 hours = 1 day.
- 7 days = 1 week.
- 28, 29, 30 or 31 days = 1 calendar month (30 days = 1 month in computing interest).
- 365 days = 1 year.
- 366 days = 1 leap year.

CIRCULAR MEASURE

- 60 seconds = 1 minute.
- 60 minutes = 1 degree.
- 30 degrees = 1 sign.
- 90 degrees = ¼ quadrant.
- 4 quadrants = 12 signs, or
- 360 degrees = 1 circle.

LONG MEASURE

- 12 inches = 1 foot.
- 3 feet = 1 yard.
- 5½ yards = 1 rod.
- 40 rods = 1 furlong.
- 8 furlongs = 1 sta. mile.
- 3 miles = 1 league.

CLOTH MEASURE

- 2½ inches = 1 nail.
- 4 nails = 1 quarter.
- 4 quarters = 1 yard.

MARINERS' MEASURE

- 6 feet = 1 fathom.
- 120 fathoms = 1 cable length.
- 7½ cable lengths = 1 mile.
- 5,280 feet = 1 statute mile.
- 6,085 feet = 1 nautical mile.

MISCELLANEOUS

- 3 inches = 1 palm.
- 4 inches = 1 hand.
- 6 inches = 1 span.
- 18 inches = 1 cubit.
- 21.8 in. = 1 Bible cubit.
- 2½ ft. = 1 military pace.

SQUARE MEASURE

- 144 sq. inches = 1 sq. ft.
- 9 sq. ft. = 1 sq. yard.
- 30¼ sq. yds. = 1 sq. rod.
- 40 sq. rods = 1 rood.
- 4 roods = 1 acre.
- 640 acres = 1 sq. mile.

INDEX

A	PAGE
Acid Swabs or Brushes	126
Angles	116
Angles, Channels, Bars	47
"Armco" Ingot Iron	44
Asbestos, Air Cell Paper	115
Asbestos Cold Water Paste	127
Asbestos Furnace Cement	126
Asbestos Fibre Roofing Cement	128
Asbestos Paper	61
Asbestos Stove Lining (New Rutland)	126
Ash Cans, Galvanized	106
Awls, Scratch	148

B	PAGE
Balls, Zinc and Copper	196
Bars, Channels, Angles	47
Bases, Chimney	42
Beading Machines	162
Blat Gates	91
Bolts, Sink	114
Boots, Stack	116
Borders, Round Slate	190
Boxes, Register	117
Bracket, Seaman Safety	153
Brakes, Cornice	172
Brushes, Roofing Paint	174
Buckles and Tongues, Stove	99
Burring Machines	180
Burrs, Swede's Iron	113
Business Laws, Brief	205

C	PAGE
Candles, Plumbers	137
Caps, Gutter	25
Caps or Hoods, Chimney	42
Caps, Tin for Roofing	173
Casing Collars	116
Ceiling or Siding, Beaded	66
Channels, Angles, Bars	47
Chimney Bases	42
Chimney Caps	41
Cleats, Pipe	87
Chimney Top	41
Clamp Hangers	80
Clasp Pipe Hooks	87
Clip, Pfelfer	62
Clips, Parker Rod	110
Coal Hods	114
Cold Chisels	147
Conductor Heads	193-194-195
Conductor "Shur Lock"	24
Conductor Straps, Ornamental	194
Copper and Zinc, Crimped	57
Copper, Hot Rolled Sheet, Extras	
Over Base Price	52-53-54-55-56-57
Corner Bead, Union	173
Cornice Brakes	172
Cornices, Galvanized Iron	197-198
Cresting Blocks and Finials	199-200-201
Crimped Copper and Zinc	57
Crimping and Beading Machine	161-162
Crown Mouldings, Galvanized	201
Cups, Shallow Porcelain Damper	110
Cut-Offs	34

D	PAGE
Damper Bearings, Parker	110
Damper Clips	109
Damper Quadrants, Parker	110
Damper Rods	109
Dampers	107-108-109
Dial Regulators	110

D	PAGE
Dividers	146
Dolly, Hand	165
Drill, B. & D. Portable Electric	153
Drill, Champion 101 Self-Feed Blacksmith Post	154

E	PAGE
Ears, Wrought Star	93-94-95-96
Eave Trough Hanger Rods	81
Elbow Edging Machines	161
Elbow Edging Rolls	161
Elbows	116
Elbows and Shoes	31-32-33
Elbows, Adjustable	119
Elbows, Twin Hot-Air	119
Elbows and Offsets, Stack	118
Elbows, Stove	111-112

F	PAGE
Familiar Facts	205
Fastener, Pipe	85-86
Felt, Single Ply Tarred	61
Felts, Tarred and Slater's	61
Finials	202-203-204
Fire Door Tin	56
Fire-Pots	134
Flashing, Corrugated End and Side Wall	63
Flue Stoppers	112
Folders and Brakes, Bench	157
Folders, Roofing	156
Former, Square Pipe and Cornice Brake	173
Forming Machines	157-158
Furnaces	133

G	PAGE
Gage, U. S. Standard Sheet	171
Gas Furnace	136
Gasoline Torch	135
Gauge, Wire Steel	104
Genasco Latite Shingles	60
Genasco Sealbac Strip Shingles	59
Genasco Smooth Surface Roofing	59
Gravel Strip	23
Grooving Machines	158-159
Grooving Tools	147
Guard Metal, Perforated	58
Gutter	17-18-19-20-21-22-23-24-25
Gutter End Formers	20
Gutter End Pieces, Caps and Outlets	25
Gutter Hangers	
71-72-73-74-75-76-77-78-79	
Gutter Hangers, Wrought	96
Gutter Spikes	81

H	PAGE
Hammers	146
Handles	97-98-100-101
Handles, Boat Pump	103
Hangers, Gutter Wrought	86
Hangers, Berger Imperial	81
Hangers, Clamp	80
Hangers, Gutter	20
Hangers, Keystone Wire	80
Hangers, Superior Strap	82
Hanger Tongs	82
Hoods or Caps, Chimney	42
Hooks	87-88-89-90
Hooks, Gas Pipe	82
Hooks, Plumbing	82
Hooks, Soil Pipe	82
Hoop Iron, Galvanized	47

INDEX—Continued

I	PAGE	P	PAGE
Indicator Handles for Cords.....101 Ingot Iron, "Armco".....44 Iron, Galvanized Hoop.....47 Iron, Stainless.....47 Irons, Wrought Slate Roof.....54		Price List of Elbows, Angles, Casing Collars, Etc.....120 Pumps, Galvanized Boat.....103 Punches.....147 Punches, Hollow.....147 Punch, Parker Metal.....150 Punch, Shear and Bender Victor No. 3, No. 7.....152 Punch, Whitney's Channel Iron.....151 Punch, Whitney's Portable Hand.....151 Putty.....128 Putty, Genesco Asphalt, Roofing Cement.....128	
K		R	
Knobs, Butter-Kettle.....96 Knobs, Teapot.....100		Register Boxes.....117 Registers, Baseboard.....188 Registers, Convex Circular Top.....187 Registers, Convex Square.....185-186 Registers, Faces and Borders 175-176-177-178-179-180-181-182-183-184 Registers, Round-Faces and Borders.....186 Registers, Round with Square Face.....190 Registers, Wrought Steel.....191 Regulators, Dial.....110 Repair Parts for Fire Pots.....135 Repair Parts for Coll Fire Pots.....135 Ridge Cap, V Angle.....199 Ridge Roll, Cold Rolled Copper.....29 Ridge Roll, Corrugated.....63 Ridging, Galvanized Roll.....199 Rivets, Flat-Head Iron.....113 Rivet Sets and Headers.....147 Rod Clips, Parker.....110 Rods, Eave Trough Hanger.....81 Roof Bracket, Ajax Folding.....153 Roofers' Hoisting Block.....132 Roofing Cement, Asbestos Fibre.....128 Roofing, Genesco Smooth Surface.....50 Roofing Pitch.....132 Roofing, Roll.....66 Roofing, Steel, "Armco" Ingot and "Toncan" Metal V Crimp.....65 Roofing Slag.....132 Roofing, Three V Crimp.....65 Roofing Tongue.....148-149 Roofing, Phoenix Ready.....60 Roofing Plates.....48-49 (Newark Old Style) (Camden Old Style) (B. B. Old Method) (Rossmont) (Norristown) (Fern) Roofing, Ready Roll Continuous Tin.....50 Roofing, Utility Smooth Surface.....60 Roosin and Charcoal.....127 Rules, Lufkin Folding.....174	
L		S	
Ladder, Folding Roof.....174 Ladder, Perfection Extension.....67 Ladle, Plumbers' Malleable Iron.....137 Lath, Expanded Metal.....58 Laws, Brief Business.....295 Lead, Sheet.....57 Lender Shoes and Sewer Connections.....35-36		Sai Ammoniac.....124-125 Scrapers, Tinnners' Roofing and Plumbers' Screw Drivers.....146 Screws, Can, Brass Can, Flat Zinc Can.....105 Screws, Parker Steel Sheet Metal.....114 Seamer, "Handy".....143 Seamers, Duplex Treadle.....149 Seamers, Roofing Double.....150 Seaming Machines.....165 Setting Down Machines, Improved.....160 Sewer Connections.....35-36 Shear and Punch.....150	
M			
Machine, All-in-Won Rotary.....159 Mallets, Tinnners'.....137 Melting Pot, Plumbers'.....137 Mitres, Seamed Reinforced.....24			
N			
Nails, Barbed Roofing.....66 Nails, Clinch.....63 Nails, Wire Slatting.....66 Nails, Special Galvanized.....66 Nails, Slaters.....66 Netting, Galvanized Poultry.....127 Nippers.....144			
O			
Oils.....130 Outlets, Gutter.....25 Oven Turnbuckles.....90			
P			
Pails, Galvanized Water.....106 Paint, Roof.....129 Paper, Air-Cell Asbestos.....115 Paper, Asbestos.....61 Perforated Guard Metal.....58 Perforated Tin.....61 Pfeiffer Clip.....62 Phoenix Ready Roofing.....60 Pipe.....27-28-29 Pipe Bands, Brass Lacquered Tin.....127 Pipe Cleats.....87 Pipe Covering, Air-Cell Sectional.....115 Pipe Fastener.....85-86 Pipe, Square Heater.....115 Pipe Straps.....91 Pipe, Stacks and Boxes, Warm Air.....115 Pitch Dippers.....132 Pitch Buckets.....132 Pitch Kettles.....131 Plastering Wire.....57 Plates, Bench.....171 Plates, Bright Tin.....50 Plates, Copper Bearing Open Hearth Roofing.....48 Pliers.....145 Plungers and Valves.....102 Polished Sheets, Wallville.....47 Poultry Netting, Galvanized.....127 Preventing Rust.....130 Prices, Hot Rolled Sheet Copper 32-53-54-55-56-57			

INDEX—Continued

	S	PAGE
Shear, Slitting	141-155-183	
Shearing, Squaring	165	
Shears, Bench	143	
Shears, Circular	164	
Shears, Compound Lever	143	
Shears, Gap Squaring	167	
Shears, Long Length Squaring	168	
Sheathing, Red Rosin Sizing	61	
Sheet Gage, U. S. Standard	171	
Sheet Iron Fire Pots	13	
Sheet Lead	57	
Sheet Metal Reamer and Socket Wrench	151	
Sheets, Corrugated, Steel, "Armco"		
Ingot Iron and "Toncan" Metal	62	
Sheets, Galvanized O. H. Steel	43	
Sheets, O. H. Black	46	
Sheets, O. H. Uniform Color Blue	46	
Steel	46	
Sheets, Tinned Iron	47	
Sheets, Wellsville, Polished	47	
Sheet, Zinc	51	
Shingles, Genasco Sealbac Strip	59	
Shingles, Genasco Latite	60	
Siding or Beaded Ceiling	66	
Siding, Pressed Steel, "Armco" Ingot		
Iron and "Toncan" Metal Brick	64	
Siding, Rock Face Brick	64	
Skylight Gearing	70	
Skylights	68-69	
Slag Brooms	132	
Slaters' Tools	171	
Slitting Shear, Chicago Steel	155	
Snips	139-140-141-142-144	
Snow Guard, Giant Wrought	83	
Snow Guards, "Loop the Loop" Wire	84	
Snow Irons, Standing-Seam Roof	83	
Snow Irons, Slate Roof	83	
Snow Irons, Corrugated Roof	83	
Solder	138	
Soldering Coppers	138	
Soldering Fluid	125	
Soldering Flux	126	
Soldering Iron Handles	148	
Soldering Paste and Salts, Yager's	124	
Speaking Tube, Elbow	36	
Speaking Tube, Standard	36	
Speaking Tube, Whistle	36	
Spikes, Gutter	81	
Spikes, Repair	81	
Sprinkler Heads, Zinc Roses	105	
Square, Standard Steel	144	
Squaring Shears, Power	166	
Stack Boots	116	
Stack Elbows and Offsets	118	
Stainless Iron	47	
Stakes, Tinnerns'	169-170	
Star Ears	93-94-95-96	
Steel, Blue Annealed	47	

	S	PAGE
Stove Boards	121-122	
Steel Sheets	43-44-45-46-47	
Stove Bolts, Flat and Round	113	
Stove Buckles and Tongues	99	
Stove Pipe	111	
Stove Pipe Collars	112	
Stove Pipe Thimbles	123	
Stove Polish, "Blackene," Paste	124	
Stove Polish, "Blackene," Liquid	124	
Strainers, Wire Conductor	30	
Strainers, Adjustable Spout	30	
Strap Hangers	92	
Straps, Pipe	81	

T

Tee Joint with Stopper	118
Tin, Fire Door	50
Tin, Perforated	50
Tin Roofing, Ready Roll Continuous	50
Tinned Iron Sheets	47
Tinners' Stakes	160-170
"Toncan" Metal	45
Tongs, Gutter	149
Tongs, Hanger	82
Tongs, Roofing	148
Turnbuckles, Oven	99
Turning and Wiring Machines	160

U

Utility Smooth Surface Roofing.....60
U. S. Standard Gauge, Iron and Steel...57

V

Valves and Plungers.....	102
Ventilators	37-38-39-40-41-42
Ventilators, Adjustable	190
Ventilators, Revolving	39-40
Ventilator, Suction	42
Vise, Parker's Eclipse	155

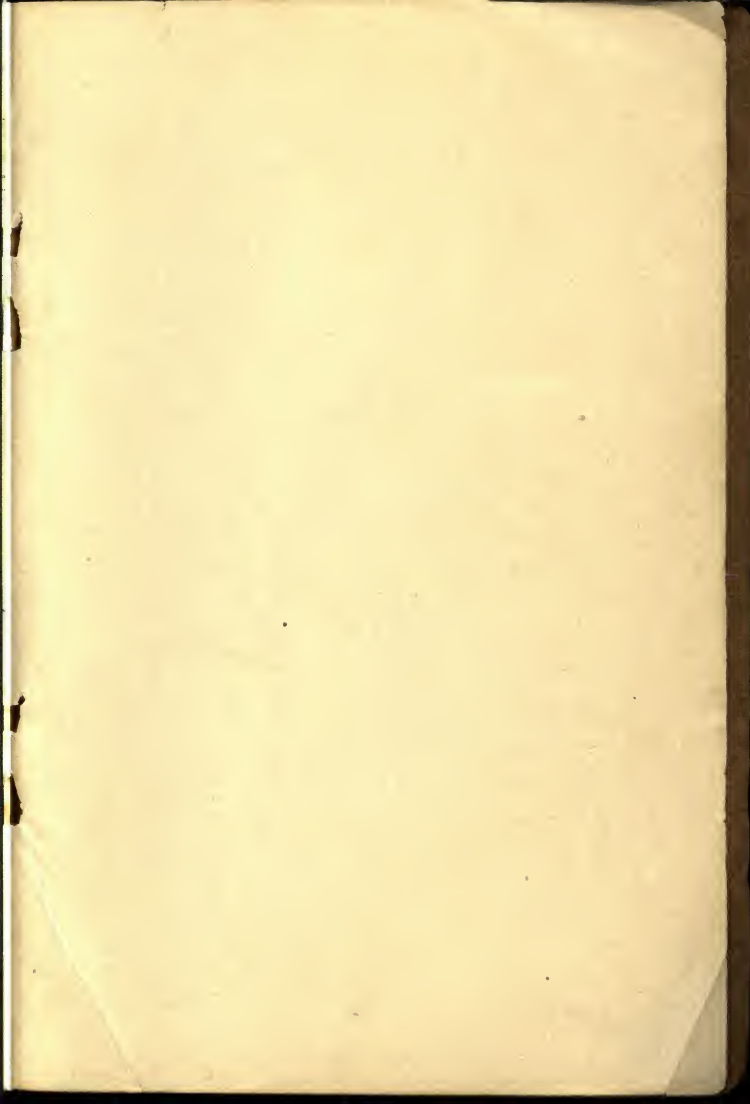
W

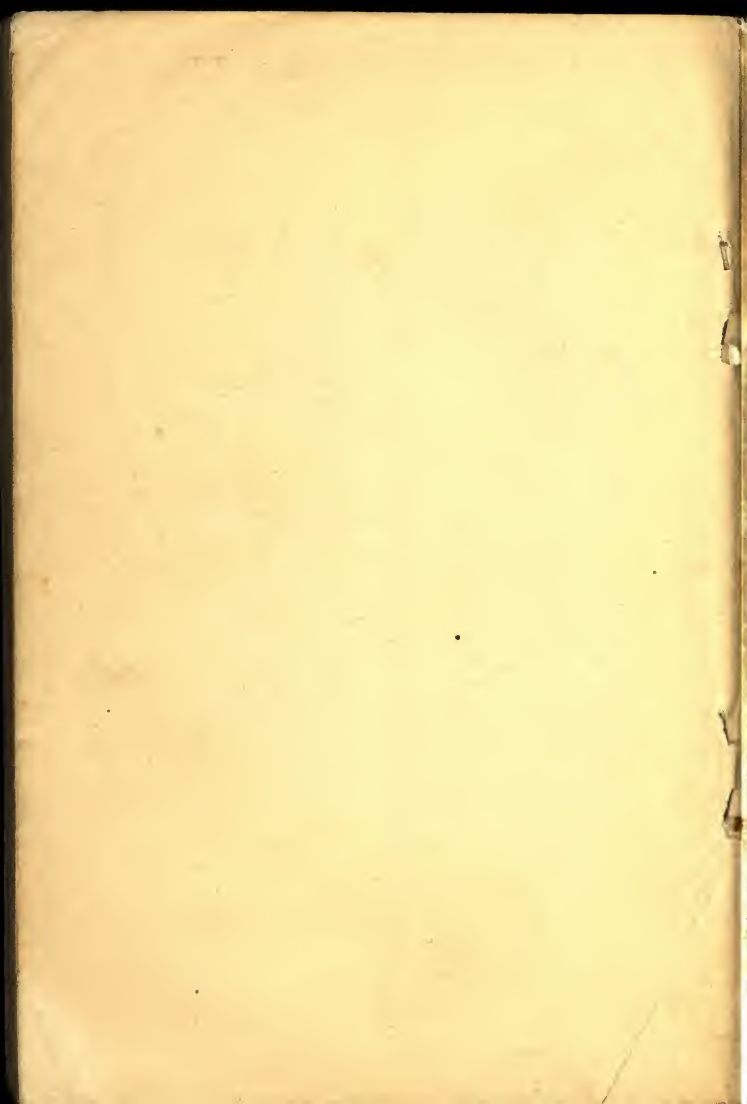
Wafers, Reversible	192
Wall Borders, Circular Top	187
Washers, Lead	63
Weights and Measures	206
Wire, Bright Annealed, Coppered and Galvanized	103
Wire Cloth, Brass Milk Strainer	100
Wire, Plastering	57
Wire, Steel Gauge	104
Wrenches, Stillson	154
Wrenches, Stronghold	154

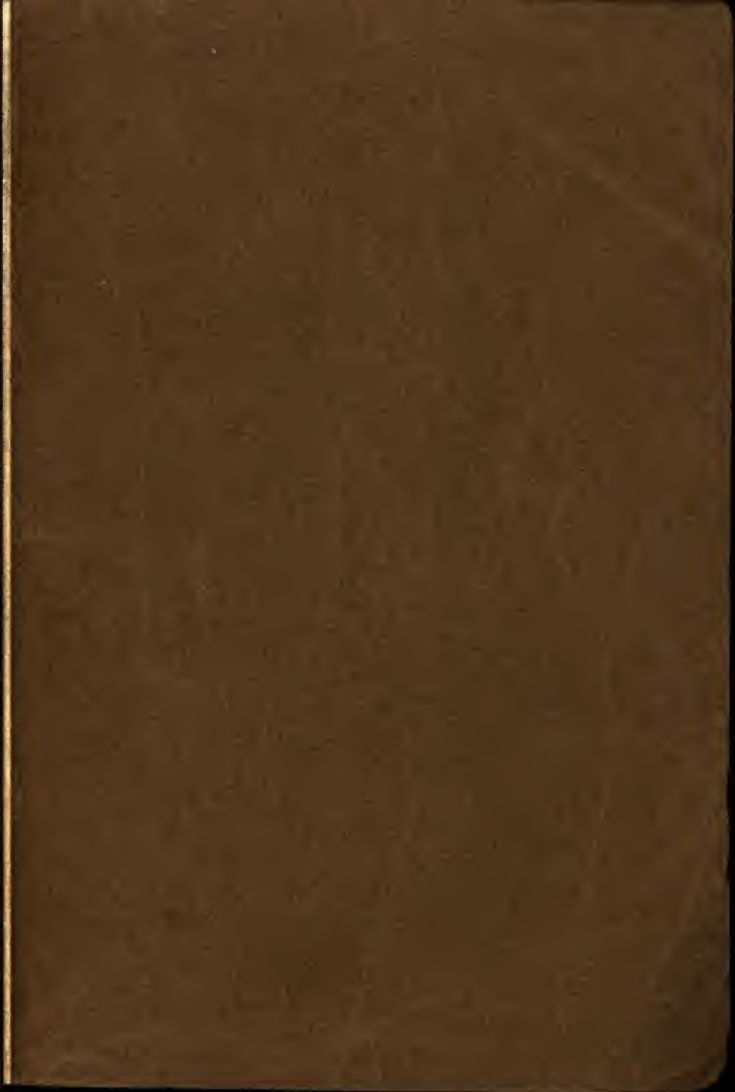
Z

Zinc and Copper, Crimped.....	57
Zinc Roses, Sprinkler Heads.....	105
Zinc, Sheet	51

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